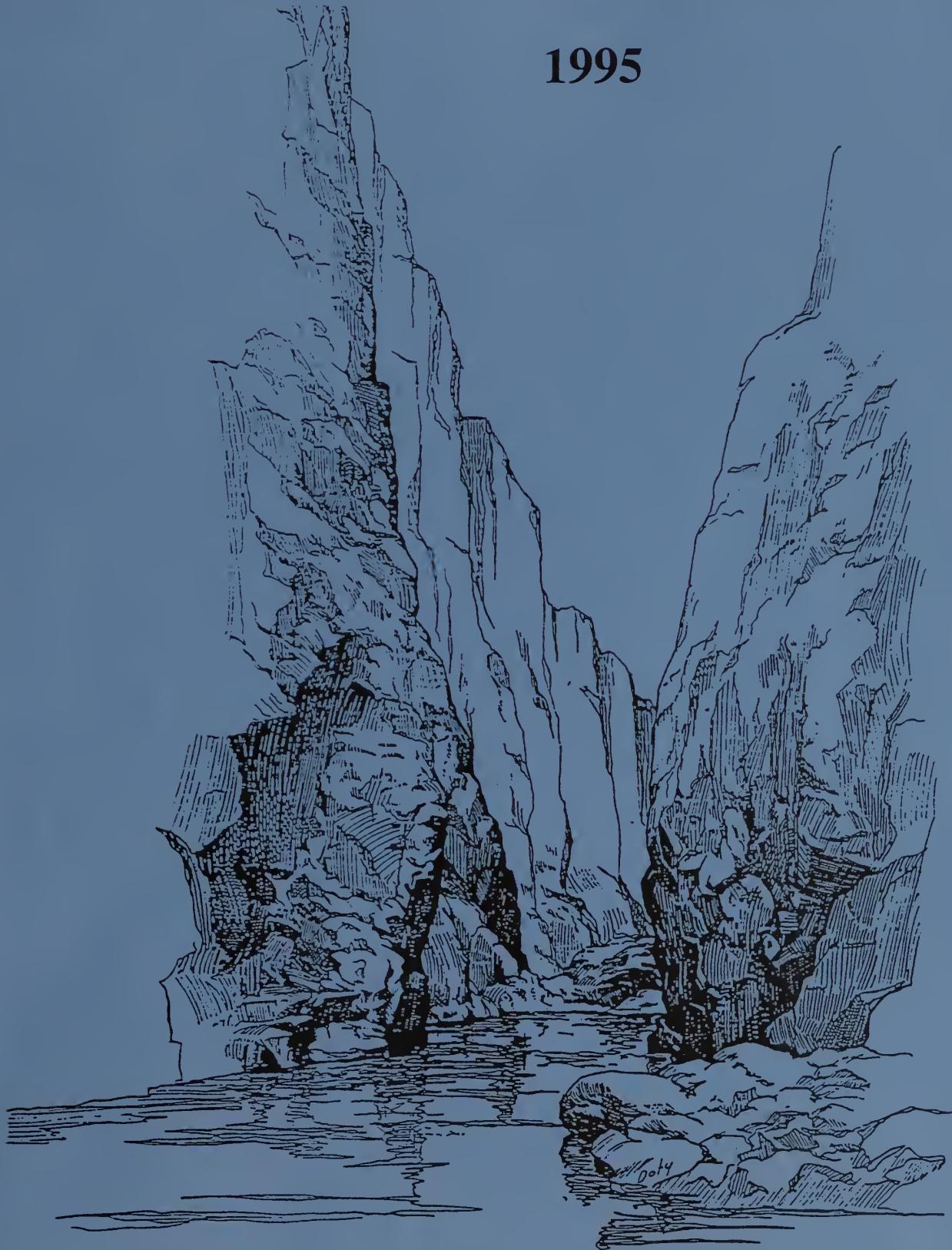


# Gunnison River System Bibliography

1995



United States Department of the Interior

National Park Service in Cooperation with Bureau of Reclamation



**Gunnison River System Bibliography**  
**Subject Bibliography: Gunnison and Related References**

**Introduction**

The Gunnison River System bibliographic database is a working product which includes a comprehensive collection of references specific to the Gunnison River, and a selection of related references involving the Colorado River System and other regions. The completion of a comprehensive literature search has been identified as an essential step in determining the research needs associated with water delivery contract negotiations underway in the Gunnison River Basin. The result is a bibliographic database containing 800+ references from which variously organized bibliographies may be generated. The database may be amended as more information is acquired, and as the scope of the bibliographic project is fine-tuned. We anticipate that the database will be useful for other research projects and resource management programs in the Upper Colorado River Basin and similar river systems.

The bibliographic database has been constructed using Pro-Cite software (by Personal Bibliographic Software, Inc.) for IBM computer systems. Each entry (reference) includes key descriptive words which can be used to organize the database in different ways. Bibliographies focusing on specific subject areas, authors, time periods, etc. can be created from the database by using the search features of Pro-Cite.

The attached bibliography contains the entire database arranged by subject groupings. References that have been placed in more than one subject grouping appear in more than one place in the document. Questions, additions and suggestions about the bibliography may be directed to Janet Wise, NPS Regional Water Resources Program Manager, or Chief of Resource Management, Black Canyon of the Gunnison National Monument. Please use the following addresses for correspondence:

National Park Service  
Rocky Mountain Regional Office  
Natural Resources Division (RMR-RN)  
P.O. Box 25287  
Lakewood, Colorado 80225-0287  
Telephone: (303) 969-2655  
Fax: (303) 969-2644

National Park Service  
Black Canyon of the Gunnison National Monument  
2233 East Main  
Montrose, CO 81401  
Telephone: (970) 249-7036  
Fax: (970) 249-7208



Digitized by the Internet Archive  
in 2012 with funding from  
LYRASIS Members and Sloan Foundation

<http://archive.org/details/gunnisonriversys00nati>

**Gunnison River System Bibliography**  
**Subject Bibliography: Gunnison and Related References**

**Table of Contents**

|  |    |
|--|----|
| Table of Contents Headings and Keywords . . . . .  | 1  |
| Climate Change . . . . .   | 3  |
| Cultural Resources/Historical . . . . .  | 3  |
| Economics/Recreation . . . . .   | 7  |
| Environmental Document (i.e., NEPA) . . . . .  | 11 |
| Fluvial Geomorphology/Geomorphology/Hydrology . . . . .  | 14 |
| Freshwater Ecology: Limnology/Fisheries Biology/Aquatic Invertebrates/Invertebrates/Aquatic Vegetation . . . . .             | 26 |
| Geology/Mapping/Photo Documentation/Soils . . . . .  | 50 |
| Hydropower . . . . .   | 54 |
| Legislation (resource protection, project authorizations, decrees, operations) . . . . .                                     | 55 |
| Pre-regulation . . . . .   | 59 |
| Reclamation Law (includes instream flow protection and environmental policy)/Water Law/Water Contract/Water Rights . . . . . | 62 |
| Reservoir Operation and Management (includes flood control hazard assessment, floodplain information and icing) . . . . .    | 65 |
| Resource and Land Management . . . . .   | 68 |
| Riparian Ecology/Riparian Vegetation . . . . .   | 72 |
| Stream Regulation (includes the effects of stream regulation, streamflows and instream flow needs assessment) . . . . .      | 80 |
| Water Quality . . . . .  | 92 |
| Water Supply . . . . .   | 95 |
| Wildlife Biology (terrestrial and riparian/aquatic - excludes fish and invertebrates) . . . . .                              | 97 |



**Table of Contents Headings and Keywords** (used in 'descriptor' field of database)

**CLIMATE CHANGE**

**Climate change**

**CULTURAL RESOURCES/HISTORICAL**

**Cultural resources**

**Historical**

**ECONOMICS/RECREATION**

**Economics**

**Recreation**

**ENVIRONMENTAL DOCUMENT**

**Environmental document** (i.e., NEPA)

**FLUVIAL GEOMORPHOLOGY/GEOMORPHOLOGY/HYDROLOGY**

**Fluvial geomorphology**

**Geomorphology**

**Hydrology**

**FRESHWATER ECOLOGY**

**Aquatic invertebrates**

**Fisheries biology**

**Freshwater ecology** (includes: limnology, aquatic resources, fisheries biology, aquatic invertebrates, invertebrates, aquatic vegetation)

**Invertebrates**

**GEOLOGY/MAPPING/PHOTO DOCUMENTATION/SOILS**

**Geology**

**Mapping**

**Photo documentation**

**Soils**

**HYDROPOWER**

**Hydropower**

**LEGISLATION**

**Legislation** (resource protection, project authorizations, decrees, operations)

**PRE-REGULATION**

**Pre-regulation**

**RECLAMATION LAW/WATER LAW/WATER CONTRACT/WATER RIGHTS**

**Reclamation law** (includes instream flow protection and environmental policy)

**Water contract**

**Water law**

**Water rights**

**RESERVOIR OPERATION AND MANAGEMENT**

**Reservoir operation and management** (includes flood control hazard assessment, floodplain information and icing)

**RESOURCE AND LAND MANAGEMENT****Resource and land management****RIPARIAN ECOLOGY/RIPARIAN VEGETATION****Riparian ecology****Riparian vegetation****STREAM REGULATION**

**Stream regulation** (includes the effects of stream regulation, streamflows and instream flow needs assessment)

**WATER QUALITY****Water quality****WATER SUPPLY**

**Water supply** (includes feasibility studies for water use and development)

**WILDLIFE BIOLOGY**

**Wildlife biology** (terrestrial and riparian/aquatic - excludes fish and invertebrates)

**OTHER KEYWORDS (not itemized in table of contents)**

**Vegetation** (terrestrial/riparian)

**Endangered species**

**Colorado related** (Colorado River system and/or Colorado)

**Gunnison** (Gunnison River system)

**Other region related** (outside of Colorado River system)

**Unknown region**

**General research related** (outside of Colorado River system, or unknown location)

**BLCA file** (Black Canyon of the Gunnison N.M.)

**CSWCB file** (Colorado State Water Conservation Board)

**CURE file** (Curecanti N.R.A.)

**WRD file** (NPS Washington Office, Water Resources Div.)

**RMRO file** (Rocky Mountain Regional Office, NPS)

**NPS document**

**NPS management document**

## CLIMATE CHANGE

August, M. H.; et al. 1992. Hydrologic and climatic data bases used to assess potential effects of climate change on water resources of American River, Carson River, and Truckee River Basins, California-Nevada, and of Gunnison River Basin, Colorado. U. S. Geological Survey Open File Report 92-627: U.S.G.S. 72 pp. Climate change/Hydrology/Gunnison/Other region related.

Elliott, J. G.; and R. S. Parker. Potential climate-change effects on bed-material entrainment, the Gunnison Gorge, Colorado. 28th Annual Conference and Symposia of the American Water Resources Association; 1992 Nov; Reno, Nevada. 9 pp. Climate change/Geomorphology/Gunnison.

Nash, L. L.; and P. H. Gleick. 1991 Jul 1. Sensitivity of streamflow in the Colorado Basin to climatic changes. *Journal of Hydrology*. 125(3): 221. Hydrology/Climate change/Colorado related.

## CULTURAL RESOURCES/HISTORICAL

Beidleman, R. G. 1965. Administrative history of the Black Canyon of the Gunnison National Monument. Colorado College, Colo. Spgs., Colo.: National Park Service. 234 pp. RMRO file/Historical/Gunnison/NPS document.

---. 1963. The Black Canyon of the Gunnison National Monument. *Colorado Magazine: The State Historical Society of Colorado*. 40(3): 161-178. Historical/Gunnison/Pre-regulation.

---. 1959. The Gunnison River diversion project. *Colorado Magazine: The State Historical Society of Colorado*. 36(3): 187- 201 and 266-285. Historical/Stream regulation/Gunnison/Pre-regulation.

Bowden, C. 1990 Apr 1. In search of a lost river: The Imperial National Wildlife Refuge preserves a flavor of the old, untamed Colorado. *Arizona Highways*. 66(4): 34. Historical/Resource and land management/General research related.

Breternitz, D. A.; S. L. Carpenter; W. G. Gillespie; and M. A. Stiger. 1974. Inventory of archeological resources, Black Canyon of the Gunnison National Monument, Colorado. Lincoln, Nebraska: National Park Service Midwest Archeological Center. 119 pp. Cultural resources/Gunnison/NPS document.

Bruce, C. A. 1933. History of federal reclamation and its accomplishments on the Uncompahgre Project, Colorado. Gunnison, Colorado: Western State College (thesis). Reclamation law/Pre-regulation/Historical/Gunnison.

Bureau of Land Management, U.S.D.I. 1982. Archeological resources of southwestern Colorado. Denver, Colorado: Colorado State Office, Bureau of Land Management. 523 pp. Cultural resources/Colorado related.

Cline, P. 1936. A brief history of the Black Canyon of the Gunnison National Monument. Archeologist's Office: U.S. National Park Service. 26 pp.  
Gunnison/NPS document/Cultural resources/Pre-regulation.

Collins, S. M.; M. L. Albertson; R. T. Euler; L. K. Lewis; and J. E. Earl. 1981. Survey of cultural resources in the Lower Gunnison Basin unit, Colorado River Quality Improvement Program, Delta and Monroe Counties, Colorado. Fort Collins, Colorado: Colorado State University, Laboratory of Public Archaeology; CSUO-48. 230 pp. Cultural resources/Gunnison.

Creer, L. H.; et al. 1853. The explorations of Gunnison and Beckwith in Colorado and Utah. Colorado Magazine: The State Historical Society of Colorado.  
Pre-regulation/Gunnison/Historical.

Dekamps, H.; M. Fortune; F. Gazelle; and G. Pautou. 1988. Historical influence of man on the riparian dynamics of a fluvial landscape. *Landscape Ecology*. 1: 163-174.  
Historical/Fluvial geomorphology/Riparian ecology//General research related.

Dolson, J. 1982. The Black Canyon of the Gunnison, a story in stone: the natural and human history of Black Canyon of the Gunnison National Monument. Boulder, Colorado: Pruett Publishing Co. 53 pp.  
Gunnison/Historical/Cultural resources/Geology.

Fellows, A. L. 1903 Nov. The Gunnison Tunnel. *Forestry and Irrigation*. 9.  
Historical/Pre-regulation/Water supply/Gunnison.

Hansen, W. R. 1965. The Black Canyon of the Gunnison, today and yesterday. U.S. Geological Survey Bulletin 1191: U.S.G.S., U.S.D.I. 76 pp.  
Gunnison/Historical.

---. 1987. The Black Canyon of the Gunnison in depth. Tucson, Arizona, USA: Southwest Parks and Monuments Association (Also U. S. Geological Survey Bulletin 1191). 58 pp.  
Geology/Geomorphology/Gunnison/Historical.

Houk, Rose. 1991. Black Canyon of the Gunnison. Tucson, Arizona: Southwest Parks and Monuments Association. 14 pp.  
Gunnison/Cultural resources/Historical/Geology.

Jones, B. J. 1982. The Curecanti Archeological Project: 1980 investigations in Curecanti National Recreation Area, Colorado. Lincoln, Nebraska: Midwest Archeological Center. 181 pp.  
Cultural resources/Colorado related.

Jones, Bruce. 1984. Radiocarbon dates from the Gunnison Basin, Curecanti National Recreation Area, Colorado. *Southwestern Lore*. 50(3): 14-22.  
Cultural resources/Gunnison.

Kerr, W. A. 1982. Gunnison National Forest: a brief history. Gunnison, Colorado: W. A. Kerr. 73 pp.  
Historical/Gunnison.

Levy, B. 1968. Curecanti Recreation Area, Colorado: historical background study. Washington, D. C.: Division of History, Office of Archeology [sic] and Historic Preservation. 40 leaves.  
Historical/Gunnison.

Madole, R. F. 1987. Geology of archeological sites in Middle Cottonwood Creek Valley and Taylor Park, Chaffee and Gunnison counties, Colorado. Denver, Colorado (?): U. S. Dept. of the Interior, U. S. Geological Survey. Books and Open-File Reports Section, distributor.  
Cultural resources/Geology/Gunnison/Colorado related.

Markoff, D. R. 1966. History of the Gunnison Waterworks since 1906. Gunnison, Colorado: Western State College (thesis). 98 leaves.  
Historical/Water supply/Gunnison.

Marsh, B. W. 1905. The Uncompahgre valley and the Gunnison tunnel: a description of scenery, natural resources, products, industries, exploration, adventures, &c. Montrose, Colorado: Marsh and Torrence: 13-151.  
Pre-regulation/Gunnison/Historical/Economics.

Miller, T. 1966. A history of the Gunnison Water Works: 1880- 1906. Gunnison, Colorado: Western State College (thesis). 68 leaves.  
Pre-regulation/Historical/Water supply/Gunnison.

Murphy, E. C. 1906. Discussion of flood conditions on Purgatory, Grand, and Gunnison rivers. In: Destructive floods in the United States in 1905. Water-Supply paper 162: U.S. Geological survey. 105 pp.  
Historical/Gunnison/Fluvial geomorphology/Pre-regulation.

National Park Service, U.S.D.I. Manuscript in progress. Archeological investigations at 5GN42, Curecanti National Recreation Area, Colorado. Lincoln, Nebraska: Midwest Archeological Center, National Park Service.  
Cultural resources/Gunnison.

---. 1980. Mark Stiger. Archeological inventory and evaluation of Curecanti National Recreation Area. Lincoln, Nebraska: Midwest Archeological Center, National Park Service; Midwest Archeological Center Occasional Studies in Anthropology, No. 14.  
Cultural resources/Gunnison.

---. 1981. The Curecanti archeological project: investigations in Curecanti National Recreation Area. Lincoln, Nebraska: Midwest Archeological Center, National Park Service; Midwest Archeological Center Occasional Studies in Anthropology, No. 14.  
Cultural resources/Gunnison.

---. 1989. The Curecanti archeological project: the late prehistoric component an Pioneer Point. Lincoln, Nebraska: Midwest Archeological Center, National Park Service; Midwest Archeological Center Occasional Papers, No. 24.  
Cultural resources/Gunnison.

---. 1981. Investigations at seven archeological sites in Curecanti National Recreation Area, Colorado. Lincoln, Nebraska: Midwest Archeological Center, National Park Service (on file).  
Cultural resources/Gunnison.

---. 1986. Paleoenvironmental and subsistence reconstructions for Curecanti National Recreation Area, Colorado. Lincoln, Nebraska: Midwest Archeological Center, National Park Service (on file).  
Cultural resources/Gunnison.

---. 1978. Palynological investigations of four sites at Curecanti National Recreation Area, Colorado. Lincoln, Nebraska: Midwest Archeological Center, National Park Service (on file).  
Cultural resources/Gunnison.

---. 1980. Palynological investigations in the Curecanti Basin, Colorado. Lincoln, Nebraska: Midwest Archeological Center, National Park Service (on file).  
Cultural resources/Gunnison.

---. no date. Pollen and macrofloral analysis from Curecanti National Recreation Area, Colorado. Lincoln, Nebraska: Midwest Archeological Center, National Park Service (on file).  
Cultural resources/Gunnison.

Parker, Troy S. 1993. South Rim Driving Tour Guide. Tucson, Arizona: Southwest Parks and Monuments Association. 15 pp.  
Geology/Historical/Cultural resources.

Quartarone, F. 1993. Historical accounts of Upper [Colorado] Basin endangered fish. Denver, Colorado: Colorado Division of Wildlife.  
Endangered species/Fisheries biology/Historical/Colorado related.

Reed, A. D. 1984. West central Colorado prehistoric context regional research design. Denver, Colorado: The State Historical Society of Colorado.  
Cultural resources/Gunnison/Colorado related.

Renaud, E. B. 1941. Classification and description of Indian stone artifacts. Gunnison, Colorado: The Colorado Archaeological Society. 36 pp.  
Cultural resources/Gunnison.

River Basin Surveys. 1949. Preliminary survey of the archeological resources in the Gunnison-Arkansas Project, Colorado, east of the mountains. Washington, D. C. (?): River, Basin Surveys, Smithsonian Institution. 27 leaves.  
Cultural resources/Historical/Gunnison.

Rossillon, M. P. 1984. The Curecanti Archeological Project: the archeology of Marion, an historic railroad camp in Curecanti National Recreation Area, Colorado. Lincoln, Nebraska: U. S. Dept. of the Interior, National Park Service, Midwest Archeological Center. 167 pp.  
Cultural resources/Historical/Colorado related.

Schiel, J. H. W. 1957. Bachmann, F. W.; and W. S. Wallace, translators. The land between: Dr. James Schiel's account of the Gunnison-Beckwith expedition in the West, 1853-1854. Los Angeles, California: Westernlore Press. 162 pp. (Great West and Indian).  
Historical/Gunnison.

Stiger, M. A.; and S. L. Carpenter. 1980. Archeological survey of Black Canyon of the Gunnison National Monument and archeological inventory and evaluation of Curecanti Recreation Area (NPS Midwest Archeological Center Occasional Studies in Anthropology No. 7). Lincoln, Nebraska: National Park Service, Midwest Archeological Center. 102 pp.  
Cultural resources/Gunnison.

Toll, R. W. 1932. [Letter to NPS Director]. ; 1932.  
Letter recommending that the Black Canyon of the Gunnison River become a national monument.  
Historical/Gunnison/Pre-regulation.

Tonge, T. 1896. The Gunnison gold belt: and Gunnison County, Colorado. Denver, Colorado: Issued by the Passenger Department, South Park Line, and the Miners' and Merchants' Association of Gunnison County. 31 pp.

Historical/Pre-regulation/Gunnison.

## ECONOMICS/RECREATION

Arthur D. Little, Inc. 1965. Comprehensive overall economic development program for Gunnison-Uncompahgre region, Colorado; final report to Planning and Development Section, Colorado Division of Commerce and Development, Colorado Dept. of Employment [and] local liaison committees, Gunnison-Uncompahgre economic development program. Denver, Colorado: Planning and Development Section, Colorado Division of Commerce and Development. 200 pp.  
Economics/Gunnison.

Booker, J. F.; and R. A. Young. 1991 Aug 1. Economic impacts of alternative water allocation institutions in the Colorado River Basin. Completion report. (161).  
Economics/Stream regulation/Water contract/Colorado related.

Brown, T. C.; B. L. Harding; and E. A. Payton. 1990 Dec 1. Marginal economic value of streamflow: a case study for the Colorado River Basin. Water Resources Research. 26(12): 2845.  
Economics/Stream regulation/Colorado related.

Bureau of Land Management, U.S.D.I. 1985. Recreation management plan for the Gunnison Gorge Recreation Lands. Montrose District: Bureau of Land Management, U.S.D.I.  
Resource and land management/Recreation/Gunnison/BLCA file.

Bureau of Reclamation, U.S.D.I. 1959 Feb. Economic justification report on Curecanti unit, Colorado River Storage Project, Colorado. Regional Office, Region 4: Bureau of Reclamation. 68 pp.  
Hydropower/Economics/Gunnison.

Bureau of Reclamation, U. S. D. I. 1958. Financial and economic analysis of the Colorado River Storage Project and participating projects (prepared for U. S. Senate, 85th Congress, 2nd session - document #101). Washington, D. C.: U. S. Government Printing Office.  
Colorado related/Economics/Reservoir operation and management.

Carrier, J. 1991 Jun 1. Water and the West: the Colorado River. National Geographic. 179(6): 2.  
Increasing demand and persistent drought have drawn down the reservoirs of the Colorado River system, a critical water source for seven states and part of Mexico.  
Reservoir operation and management/Water supply/Economics/ Colorado related.

Colorado Division of Commerce and Development. 1965. The Gunnison-Uncompahgre region, Colorado. Denver, Colorado (?): Colorado Division of Commerce and Development. 47 pp.  
Economics/Gunnison.

Colorado State Planning Division. 1962. A comprehensive plan for the Gunnison-Uncompahgre region, Colorado. Denver, Colorado: Colo. State Planning Division.  
Economics/Resource and land management/Gunnison.

Droste, L. A. 1964. Economic future of the western slope: Northwest region, Colorado River region, Gunnison River region [and] San Juan Region. Boulder, Colorado: Bureau of Business Research, School of Business, University of Colorado.  
Economics/Gunnison/Colorado related.

Eckert, J. B.; and E. Wang. 1993 Feb 1. Effects of irrigation water supply variations on limited resource farming in Conejos County, Colorado. *Water Resources Research*. 29(2): 229.  
 Water supply/Economics/Colorado related.

Economic Research Service, U.S.D.A. 1962. Water and related land resources, Gunnison River Basin, Colorado: a report based on a cooperative study by Colorado Water Conservation Board and United States Department of Agriculture. Salt Lake City, Utah: prepared by Economic Research Service, U. S. Forest Service, Soil Conservation Service. 103 pp.  
 Pre-regulation/Water supply/Economics/Gunnison.

Espergen, G. G.; D. D. Miller; and R. B. Nehring. 1990. Modeling the effects of various angling regulations on trout populations in Colorado streams. Special Report Number 67: Colorado Division of Wildlife. 24 pp.  
 Fisheries biology/Recreation/Colorado related.

Federal Emergency Management Agency. 1989. Flood insurance study: Gunnison County, Colorado, unincorporated areas, Community number 080078. Washington, D. C. (?): Federal Emergency Management Agency. 13 pp.  
 Economics/Gunnison.

Flug, M.; W. R. Walker; and G. V. Skogerboe. 1979. Optimal water use and salinity control for energy - Upper Colorado River Basin. *Water Resources Bulletin*. 15(4): 964-973.  
 Water supply/Water quality/Economics/Colorado related.

1991 Sep 1. Grand Valley on-farm programs protect Colorado River from salt. *Irrigation Journal*. 41(6): 8.  
 Over-irrigation and seepage from canals in the Grand Valley contribute more than 600,000 tons of salt annually to the Colorado River. On-farm programs developed by the SCA and the ARS are reducing the salt load.  
 Water quality/Economics/Colorado related.

Gunnison County Board of County Commissioners. 1983. Gunnison County land use resolution. Gunnison, Colorado: Gunnison County Board of County Commissioners.  
 Economics/Gunnison.

Gunnison National Forest, Colorado. Burrus, R. F.; and F. E. Washburn. Denver, Colorado: U. S. Forest Service, regional office; compiled from U.S.F.S. aerial surveys, B.L.M., U.S.G.S. and other surveys; 1955.  
 Mapping/Recreation/Gunnison.

Gunnison National Forest, Colorado. ---. Denver, Colorado: U. S. Forest Service, regional office; compiled from U.S.F.S. aerial surveys, B.L.M., U.S.G.S. and other surveys; 1959.  
 Mapping/Recreation/Gunnison.

Gunnison National Forest, Colorado. U. S. Forest Service, Rocky Mountain Region. Denver, Colorado: U. S. Forest Service; compiled and drawn at regional office, Denver, Colorado; 1965. 74 x 60 cm. fold. to 15 x 21 cm.; 1:250,000.  
 Mapping/Recreation/Gunnison.

HDR Engineering, Inc. 1988. Phase I feasibility study for Upper Gunnison-Uncompahgre Basin, task memorandum no. 4, recreation and environmental enhancement opportunities. HDR Engineering, Inc.  
 Recreation/Resource and land management/Gunnison.

Howe, C. W.; J. K. Lazo; and K. R. Weber. 1990 Dec 1. The economic impacts of agriculture-to-urban water transfers on the area of origin: a case study of the Arkansas River Valley in Colorado. *American Journal*

of Agricultural Economics. 72(5): 1200.  
Economics/Water Supply/Colorado related.

Huner, J. V. 1978. Exploitation of freshwater crayfishes in North America. *Fisheries*. 3(6): 2-19.  
Aquatic invertebrates/Economics/Fisheries biology/General research related.

Libecap, G. D. 1991 Mar. Markets for federal water: subsidies, property rights, and the Bureau of Reclamation. *Journal of Economic Literature*.  
Water rights/Reclamation law/Economics/General research related.

Little, A. D. Inc. 1965. Comprehensive overall economic development program for Gunnison-Uncompahgre region, Colorado; final report to Planning and Development Section, Colorado Division of Commerce and Development, Colorado Dept. of Employment [and] local liaison committees, Gunnison-Uncompahgre economic development program. Denver, Colorado: Planning and Development Section, Colorado Division of Commerce and Development. 200 pp.  
Economics/Gunnison.

Marsh, B. W. 1905. The Uncompahgre valley and the Gunnison tunnel: a description of scenery, natural resources, products, industries, exploration, adventures, &c. Montrose, Colorado: Marsh and Torrence: 13-151.  
Pre-regulation/Gunnison/Historical/Economics.

McKean, J. R.; D. M. Johnson; and R. G. Walsh. 1988. Gunnison County interindustry spending and employment attributed to fishing at Blue Mesa Reservoir. Fort Collins, Colorado: Colorado Water Resources Research Institute, Colorado State University; 53. 114 pp.  
Fisheries biology/Economics/Gunnison.

Miller, D. D. 1992. Application of a population simulation model to the selection of angling regulations for stream fisheries. 39 pp.  
Recreation/Fisheries biology/General research related.

Mitchem, L. E. 1975. A social-economic profile of the Black Canyon region, Montrose District Office (Colorado), Bureau of Land Management. Boulder, Colorado: Resources Development Internship program, Western Interstate Commission for Higher Education. 202 pp.  
Economics/Gunnison.

National Park Service, U.S.D.I. 1986. Black Canyon of the Gunnison National Monument: South Rim Drive. Washington, D. C. (? ): National Park Service. 10 pp.  
Recreation/NPS document/Gunnison.

---. 1993. Instream flows for recreation: A handbook on concepts and research methods. Oregon State University: Cooperative Park Studies Unit, National Park Service Water Resources Division. 103 pp.  
Stream regulation/Recreation/General research related/NPS management document.

Nehring, R. B. 1988. Fisherman use and catch evaluation of the Gunnison River and sport fish population analysis for 1988 from the east portal access area below Crystal Dam to the North Fork confluence. Fort Collins, Colorado: Colorado Division of Wildlife.  
Fisheries biology/Recreation/Gunnison.

---. 1983. Gunnison River sport fish population evaluation and fisherman use and catch study for the East Portal access area below Crystal Dam to the North Fork confluence. Fort Collins, Colo.: Colorado Division of Wildlife.  
Fisheries biology/Recreation/Colorado related.

Nehring, R. B.; and R. Anderson. 1985. Stream fisheries investigations, Colorado Division of Wildlife, Federal Aid in Fish and Wildlife Restoration, F-51, job progress report. Fort Collins, Colorado: Colo. Div. of Wildlife.  
Fisheries biology/Recreation/Colorado related.

Region 10 Economic Development District, Montrose, CO. 1983. Colorado Black Canyon area economic development district: regional profile. Montrose, Colorado: Region 10 Economic Development District. 24 pp. Region 10 Economic Development District, Drawer 849, Montrose, CO 81402.  
Economics/Gunnison.

Ryan, C. R. (District 10 Regional Planning Commission (Colorado)). 1977 Jun. Region 10 overall economic development program. Montrose, Colorado: District 10 Regional Planning Commission. 127 pp.  
Economics/Colorado related.

Shelby, B.; T. C. Brown; and R. Baumgartner. 1992 Jul 1. Effects of streamflows on river trips on the Colorado River in Grand Canyon, Arizona. *Rivers: studies in the science, environmental ...* 3(3): 191.  
Stream regulation/Recreation/Colorado related.

Soil Conservation Service, U.S.D.A. 1969. An appraisal of outdoor recreation potentials in Gunnison County, Colorado. U. S. Dept. of Agriculture: Soil Conservation Service. 77 pp.  
Recreation/Gunnison.

Tennant, D. L. 1976. Instream flow regimes for fish, wildlife, recreation, and related environmental resources. In: J. Osborn and C. Allman, eds. *Proceeding: Specialty Conference on Instream Flow Needs: American Fisheries Society.* ; II: 359-373.  
Fisheries biology/Recreation/Stream regulation/General research related.

Thornton, L. M. 1975. Applications of geomorphology to land-use planning and recreation at Blue Mesa Reservoir, Gunnison County, Colorado [thesis]. Lawrence, Kansas: University of Kansas. 99 leaves.  
Reservoir operation and management/Geomorphology/Recreation/ Gunnison.

U. S. Bureau of the Census, Dept. of Commerce. 1980. Census of agriculture (1978), preliminary report, Gunnison County, Colo. Washington, D. C.: Dept. of Commerce, Bureau of the Census. 4 pp. For sale by Subscribers Services Section (Publications), Bureau of the Census, 1980.  
Economics/Gunnison.

U. S. Department of Interior, Assistant Secretary. 1963. Published by U. S. Government Printing Office, House Document No. 77, 88th Congress, 1st Session; 1963.  
Letter transmitting a supplemental report and certification of economic justification on the Crystal Dam, reservoir, and power plant, which comprises a segment of the Curecanti unit, Colorado river storage project, in Colorado.  
Water supply/Economics/Stream regulation/Gunnison.

U. S. Fish and Wildlife Service, U.S.D.I. 1959. Colorado River Storage Project, Bostwick Park Project, Colorado (BR): Bureau of Sport Fisheries and Wildlife report. Albuquerque, N.M.: U. S. Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, U.S.D.I. 6 leaves.  
Fisheries biology/Recreation/Colorado related.

---. 1993 Nov 4. Overview of the proposed critical habitat designation for the four Colorado River endangered fishes, draft [part one of three part series], economic overview. Biologists: H. R. Maddux; W. R. Noonan; and L. A. Fitzpatrick; Economists: D. S. Brookshire; M. McKee; and G. Watts. Salt Lake City, Utah: U. S. Fish and Wildlife, Utah Field Office. 65 pp.

Fisheries biology/Endangered species/Economics.

United Banks of Colorado, Inc., Economic Development Dept. 1972. Gunnison Colorado: an economic overview. Denver, Colorado: United Banks of Colorado, Inc., Economic Development Dept. Economics/Gunnison.

---. 1974. Gunnison, Colorado, an economic overview. Denver, Colorado: United Banks of Colorado, Inc. Economic Development Dept. Economics/Gunnison.

Utah Committee for the Development of the Colorado River Storage Project. 1955. Colorado River Storage Project economic data and discussion. Salt Lake City, Utah: Prepared by the Bureau of Economic and Business Research and Univ. of Utah for Utah Committee on Industrial and Employment Planning and Grass Roots, Inc., Utah.

Colorado related/Economics.

Walsh, R. G.; et al. 1985. Wild and scenic river economics: recreation use and preservation values. Economics/Recreation/General research related.

Young, R. A.; R. L. Gardner; and E. W. Sparling. 1990 May 1. Assessing strategies for control of irrigation-induced salinity in the Upper Colorado River Basin: reply. American Journal of Agricultural Economics. 72(2): 497.

Economics/Water quality/Colorado related.

## ENVIRONMENTAL DOCUMENT (i.e., NEPA)

Bureau of Land Management, U.S.D.I. 1991. Draft resource management plan and environmental impact statement, March, 1991. Montrose, Colorado: prepared by U. S. Dept. of the Interior, Bureau of Land Management, Colorado State Office, Montrose District, Gunnison Resource Area.

Resource and land management/Environmental document/Gunnison.

---. 1984. Final suitability report and environmental impact statement: proposed wilderness designation of the Powderhorn Instant Study Area, Gunnison and Hinsdale Counties, Colorado. Montrose, Colorado: prepared by Bureau of Land Management, Dept. of the Interior, Montrose District, Colorado. 196 pp.

Environmental document/Gunnison/Colorado related.

---. 1991. Gunnison resource area resource management plan and environmental impact statement. Montrose, Colorado: B.L.M., U.S.D.I.

Resource and land management/Environmental document/Gunnison.

---. 1982. Proposed wilderness designation of the wilderness study areas within the Gunnison Basin and American Flat/Silverton planning units of the Montrose District, Colorado: draft environmental impact statement. Montrose, Colorado: B.L.M., U.S.D.I. 50 pp.

Environmental document/Gunnison.

---. 1987. Proposed wilderness designation of the wilderness study areas within the Gunnison Basin and American Flats/ Silverton planning units of the Montrose District, Colorado: final environmental impact statement. Gunnison, Colorado: Montrose District, B.L.M., U.S.D.I. 263 pp.

Environmental document/Gunnison.

- . 1987. Uncompahgre Basin resource management plan and environmental impact statement (on file at BLCA). Montrose District, Colorado: B.L.M., U.S.D.I. 3 pp.  
Resource and land management/Environmental document/Gunnison/ BLCA file.

- . 1989. Uncompahgre Basin wilderness: final environmental impact statement. Montrose District, Uncompahgre Basin Resource Area, Colorado: B.L.M., U.S.D.I.

This final environmental impact statement analyzes and describes the environmental, social, and economic effects of designating or not designating as wilderness, three wilderness study areas in the Uncompahgre Basin Resource Area. The study areas are Gunnison Gorge (21,038 acres), Camel Back (10,402 acres), and Adobe Badlands (10,425 acres). The All Wilderness and No Wilderness Alternatives were considered for each WSA. In addition, an Enhanced All Wilderness Alternative was developed as the Proposed Action for the Gunnison Gorge WSA. The Proposed Action, which was identified after the environmental analysis, recommends the entire Gunnison Gorge WSA, plus an additional 1,040 acres, (22,078 acres total) as preliminarily suitable for wilderness designation.

Resource and land management/Environmental document/Gunnison.

- Bureau of Reclamation, U.S.D.I. 1971. Crystal dam, reservoir, and power plant, Curecanti unit, Colorado River storage project (final environmental impact statement). Upper Colorado Region: Bureau of Reclamation. 53 pp.

Hydropower/Environmental document/Stream regulation/Gunnison.

- . 1971. Crystal dam, reservoir, and power plant, Curecanti unit, Colorado River storage project (draft environmental impact statement). Upper Colorado Region: Bureau of Reclamation. 32 pp.  
Hydropower/Environmental document/Hydropower/Stream regulation/ Gunnison.

- . 1973. Crystal dam, reservoir, and power plant, Curecanti unit, Colorado River Storage Project, Colorado. Supplement to final environmental impact statement. Upper Colorado Region: Bureau of Reclamation. 25 pp.

Hydropower/Environmental document/Stream regulation/Gunnison.

- . 1988. Draft environmental assessment Uncompahgre Valley hydropower project. Upper Colorado Region: Bureau of Reclamation. Hydropower/Stream regulation/Environmental document/Gunnison.

- . 1989. Draft environmental impact statement, AB Lateral Hydropower Facility, Uncompahgre Valley Hydropower Project. Upper Colorado Region, Bureau of Rec.: In cooperation with the National Park Service and Bureau of Land Management. 232 pp.

Hydropower/Environmental document/Stream regulation/Gunnison.

- . 1990. Final environmental impact statement: AB Lateral hydropower facility, Uncompahgre Valley Reclamation Project, Montrose and Delta Counties, Colorado, Vols. I and II. Upper Colorado Region: Bureau of Reclamation. 532 pp.

Hydropower/Environmental document/Stream regulation/Gunnison.

- . 1984. Lower Gunnison Basin Unit feasibility report/final environmental statement/Colorado River Water Quality Improvement Program. Salt Lake City, Utah (?): Upper Colorado Region, Bureau of Rec., prepared in cooperation with U. S. Fish and Wildlife Service.  
Environmental document/Water quality/Gunnison.

- . 1989. Preliminary draft environmental impact statement, AB Lateral Hydropower Facility environmental report. Upper Colorado Region: Bureau of Rec. 166 pp.

Hydropower/Environmental document/Stream regulation/Gunnison.

---. 1971. Statement of environmental impact - overland ditch and reservoir company, Hotchkiss, Colorado, Reclamation Project. Upper Colorado Region: Bureau of Rec. Stream regulation/Environmental document/Colorado related.

Colorado West Group. 1975. Environmental assessment for water and sewer systems, Black Canyon of the Gunnison National Monument. Prepared for NPS Rocky Mountain Region. Environmental document/NPS document/Gunnison.

Federal Highway Administration, U.S.D.T. 1979. Final environmental impact statement: Hotchkiss to Paonia Dam, Delta and Gunnison Counties, Colorado. Denver, Colorado (?): prepared by the Colorado Dept. of Highways in cooperation with the U. S. Dept. of Transportation, Federal Highway Administration; RS-133(5). 299 pp. Environmental document/Gunnison/Colorado related.

National Park Service, U.S.D.I. 1978. Amended draft environmental statement, land use plan for the East River Unit, Gunnison National Forest. Washington, D. C.: U.S.G.P.O. 207 pp. Environmental document/Gunnison.

---. 1980. Black Canyon of the Gunnison National Monument, Colorado: environmental assessment, development concept plans. Denver, Colorado: prepared by Denver Service Center, National Park Service. 204 pp. Environmental document/Gunnison/NPS document.

---. 1983. Black Canyon of the Gunnison natural resource management plan and environmental assessment with finding of no significant impact. BLCA: NPS. 75 pp. Gunnison/NPS management document/Environmental document.

---. 1980. Environmental assessment development concept plans, Black Canyon of the Gunnison National Monument, Colorado. Denver Service Center (on file at Rocky Mountain Regional Office): NPS. 204 pp. Environmental document/Gunnison/NPS management document/RMRO file.

National Park Service, U.S.D.I.; Colorado Water Conservation Board. 1979. Gunnison wild and scenic river study: final environmental statement. Denver, Colorado: NPS Rocky Mountain Regional Office in cooperation with Colorado Dept. of Natural Resources. 116 pp. Environmental document/Gunnison/NPS document.

National Park Service, U.S.D.I. 1979. Gunnison wild and scenic river study: draft environmental statement. Washington, D. C.: National Park Service: prepared in cooperation with the Colorado Water Conservation Board. 147 pp. Environmental document/Gunnison/NPS document.

---. 1972. Proposed Wilderness Area, Black Canyon of the Gunnison National Monument, Colorado: final environmental impact statement. Omaha, Nebraska: prepared by NPS Midwest Regional Office. 64 pp. Environmental document/NPS management document/Gunnison.

---. 1976. Supplement to the final environmental impact statement, proposed wilderness area, Black Canyon of the Gunnison National Monument, Colorado. prepared by BLCA staff: NPS. 14 pp. Environmental document/BLCA file/Gunnison.

U. S. Fish and Wildlife Service, U.S.D.I. 1992B. Final Biological Opinion for the operation of Flaming Gorge Dam. Denver, Colorado: Region 6, U. S. Fish and Wildlife Service. 44 pp plus appendices. Endangered

species/Freshwater ecology/Stream regulation/ Environmental document/Colorado related.

U. S. Forest Service, U.S.D.A. 1958. Analysis of impacts upon the administration, management and use of the Gunnison National Forest and upon forest resources, Curecanti Unit, Colorado River Storage Project, Colorado. Denver, Colorado: Report prepared by U.S.D.A., U. S. Forest Service, Rocky Mountain Region, in cooperation with U.S.D.I., Bureau of Reclamation. 11 leaves.  
Environmental document/Gunnison/Colorado related.

---. 1977. East River land management plan: final environmental impact statement. Denver, Colorado: Dept. of Agriculture, U. S. Forest Service, Rocky Mountain Region. 242 pp.  
Environmental document/Gunnison.

---. 1983. Final environmental impact statement for Grand Mesa, Uncompahgre, and Gunnison National Forests: land and resource management plan. Delta, Colorado: U. S. Department of Agriculture, U. S. Forest Service.  
Environmental document/Gunnison.

---. 1984. Final environmental impact statement and the land and resource management plan for the White River National Forest Land and Resource Management Plan, Eagle, Garfield, Gunnison, Mesa, Moffat, Pitkin, Rio Blanco, Routt, and Summit counties, Colorado. Glenwood Springs, Colorado: U. S. Dept. of Agriculture, U. S. Forest Service.  
Environmental document/Gunnison/Colorado related.

---. 1982. Mount Emmons Mining Project: final environmental impact statement. Washington, D. C.: U. S. Forest Service. 240 pp.  
Environmental document/Colorado related.

---. 1982. Summary of the draft environmental impact statement and proposed forest plan: Grand Mesa, Uncompahgre, and Gunnison National Forest. Delta, Colorado: U. S. Forest Service. 38 pp.  
Environmental document/Gunnison/Colorado related.

---. 1984. Summary of the final environmental impact statement and the land and resource management plan for the White River National Forest, Eagle, Garfield, Gunnison, Mesa, Moffat, Pitkin, Rio Blanco, Routt, and Summit counties, Colorado. Glenwood Springs, Colorado: U. S. Department of Agriculture, U. S. Forest Service.  
Resource and land management/Environmental document/Gunnison/ Colorado related.

## FLUVIAL GEOMORPHOLOGY/GEOMORPHOLOGY/HYDROLOGY

Ackerman, D. J.; and T. Brooks. 1986. Reconnaissance of ground- water resources in the North Fork Gunnison River Basin, southwestern Colorado. Denver, Colorado: U. S. Dept. of the Interior, U. S. Geological Survey; 85-4230. 21 pp. U. S. Geological Survey, Books and Open-File Reports, distributor.  
Hydrology/Gunnison.

Andrews, E. D. (United States Geological Survey, Boulder Laboratory, MS 458, Box 25046, Federal Center, Denver CO 80225; 303-541-3002). Design of maintenance flows for regulated streams. American Geophysical Union; 1992 Dec.  
Stream regulation/Hydrology/General research related.

- . 1980. Effective and bankfull discharge of streams in the Yampa River basin, Colorado and Wyoming. *Hydrology*. 46: 311-330.  
Hydrology/Geomorphology/Colorado related.
- . 1978. Present and potential sediment yields in the Yampa River basin, Colorado and Wyoming. U. S. Geological Survey: Water Resources Investigations; 79-195. 33 pp.  
Geomorphology/Colorado related.
- . 1990. Sediment transport in the Colorado River Basin. in: Colorado River ecology and dam management, proceedings of a symposium; 1990 May 24; Santa Fe, New Mexico. Wash., D. C.: National Academy Press: 54-74.  
Geomorphology/Colorado related.

Andrews, E. D.; and J. M. Nelson. 1989. Topographic response of a bar in the Green River, Utah to variation in discharge. S. Ikeda; and G. Parker, eds. *River Meandering: American Geophysical Union Water Resources Monograph*. 12: 463-485.  
Stream regulation/Geomorphology/Colorado related.

Asplund, K. K.; and M. T. Gooch. 1988. Geomorphology and the distributional ecology of Fremont Cottonwood (*Populus fremontii*) in a desert riparian canyon. *Desert Plants*. 9(1): 17.  
Riparian vegetation/Geomorphology/Riparian ecology/General research related.

August, M. H.; et al. 1992. Hydrologic and climatic data bases used to assess potential effects of climate change on water resources of American River, Carson River, and Truckee River Basins, California-Nevada, and of Gunnison River Basin, Colorado. U. S. Geological Survey Open File Report 92-627: U.S.G.S. 72 pp.  
Climate change/Hydrology/Gunnison/Other region related.

Baker, V. R. 1988. *Flood geomorphology*. : John Wiley and Sons.  
General research related/Fluvial geomorphology.

Baker, V. R.; and D. F. Ritter. 1975 Jul. Competence of rivers to transport coarse bedload material. *Geological Society of America Bulletin* (Doc. no. 50714). 86: 975-978.  
Geomorphology/General research related.

Baker, W. L. 1990 Jan 1. Climatic and hydrology effects on the regeneration of *Populus angustifolia* James along the Animas River, Colorado. *Journal of Biogeography*. 17(1): 59.  
Hydrology/Riparian vegetation/Colorado related.

Beaumont, P.; and T. M. Oberlander. 1971. Observations on stream discharge and competence at Mosaic Canyon, Death Valley, California. *Geological Society of America Bulletin*. 82(6).  
Hydrology/Geomorphology/Other region related.

Beus, S. S.; and C. C. Avery; et al. (Northern Arizona University and others). 1992. The influence of variable discharge regimes on Colorado River sand bars below Glen Canyon dam: draft final report. Chapter 10: An integration of results from the GCES sand bar stability research project. Northern Arizona University, Flagstaff, Arizona: U.S. Dept. of Interior, National Park Service Cooperative Parks Study Unit. 19 pp.  
Stream regulation/Geomorphology/Colorado related.

Bradley, W. C.; and A. I. Mears. 1980 Mar. Calculations of flows needed to transport coarse fraction of Boulder Creek alluvium at Boulder, Colorado. *Geological Society of America Bulletin*. 91(Part 2): 1057-1090.  
Geomorphology/Colorado related.

Branson, E. B. 1925. Course of the Gunnison River in Colorado. Geological Survey of America Bulletin; 36(1): 139.  
Pre-regulation/Gunnison/Geomorphology/Geology.

Brayshaw, A. C. 1985. Bed microtopography and entrainment thresholds in gravel-bed rivers. Geological Society of America Bulletin. 96: 218-223.  
Geomorphology/General research related.

Bridge, J. S.; and J. Jarvis. 1977. Velocity profiles and bed shear stress over various bed configurations in a river bend. Earth Surface Processes. 2: 281-294.  
Hydrology/Geomorphology/General research related.

Brooks, T.; and D. J. Ackerman. 1985. Reconnaissance of ground water resources in the lower Gunnison River basin, southwestern Colorado. U.S. Geological Survey, Water Resources Investigation Report: prepared in cooperation with the Colorado Department of Natural Resources, Division of Water Resources; 84-4185. 30 pp.  
Hydrology/Gunnison.

Bull, W. B. 1962. Relations of alluvial-fan size and slope to drainage-basin size and lithology in western Fresno County, California. Geological Survey Professional Paper 450-B, Article 19, pp. B-51 - B-53: U.S.G.S.; Geological Survey Research 1962, Short Papers in Geology, Hydrology, and Topography (Articles 1- 59). Geomorphology/Other region related.

Bureau of Land Management, U.S.D.I. 1992 Aug. Project plan: Gunnison Gorge instream flow assessment, Uncompahgre Basin Resource Area, Colorado. Montrose, Colorado: B.L.M., U.S.D.I. 17 pp.  
Hydrology/Stream regulation/Gunnison.

Bureau of Land Management, U.S.D.I.; and U. S. Forest Service, U. S. D. A. 1992 Aug. XSPRO: A channel cross-section analyzer. G. E. Grant, J. E. Duval, G. J. Koerper, and J. L. Fogg, auth. Denver, Colo.: Bureau of Land Management Service Center; Technical Note 387, BLM/SC/PT-92/001+7200. 53 pp. XSPRO is an interactive, menu-driven software package designed to assist watershed specialists in analyzing stream channel cross-section data. It can assist resource specialists in analyzing instream flow needs, performing hydraulic reconstructions, designing effective channel and riparian structures, and monitoring channel changes.  
General research related/Fluvial geomorphology.

Burkhard, W. T. 1978. Taylor River flows, Upper Gunnison River investigations. ; Federal Aid Project F-51-R. Hydrology/Gunnison.

Burkhard, W. T.; and R. D. Sherman. Upper Gunnison River investigations. ; Federal Aid Project F-51-R. Hydrology/Gunnison.

Butler, D. L.; et al. 1991. Reconnaissance investigation of water quality, bottom sediment, and biota associated with irrigation drainage in the Gunnison and Uncompahgre River basins and at Sweitzer Lake, west-central Colorado, 1988-89. Denver, Colorado: U.S.D.I., U. S. Geological Survey, Books and Open File Reports Section; prepared in cooperation with the U. S. Fish and Wildlife Service and the U. S. Bureau of Reclamation; 91-4103. 99 pp.  
Freshwater ecology/Geomorphology/Water quality/Gunnison/Colorado related.

Butler, M. 1988. Minimum streamflow hydrographs and sediment transport in the Yampa River canyon reaches. Region 6 draft report: U.S. Fish and Wildlife Service.  
Geomorphology/Hydrology/Colorado related.

Chang, A. T. C.; J. L. Foster; and A. Rango. 1992 Mar 1. The role of passive microwaves in characterizing snow cover in the Colorado River Basin. *GeoJournal*. 26(3): 381.  
Hydrology/Colorado related.

Chase, K. J. 1992. Gunnison River thresholds for gravel and cobble motion, Black Canyon of the Gunnison National Monument. Fort Collins, Colorado: Colorado State University. 104 pp.  
Masters thesis.  
Geomorphology/Gunnison.

Colby, B. R.; and C. H. Hembre. 1955. Computations of total sediment discharge, Niobrara River near Cody, Nebraska. Water Supply Paper 1357: U. S. Geological Survey.  
Hydrology/Geomorphology/Other region related.

Colorado Agricultural Experiment Station. 1971. List and location of snow courses and soil moisture stations. Fort Collins, Colorado. 16 pp.  
Soils/Hydrology/General research related.

Colorado Division of Water Resources, Office of the State Engineer. Stream flow data for Colorado. Published annually. Denver, Colorado: State of Colorado, Office of the State Engineer.  
Colorado related/Hydrology.

Costa, J. E. 1983. Paleohydraulic reconstruction of flash flood peaks from boulder deposits in the Colorado Front Range. *Geological Society of America Bulletin*. 94: 986-1004.  
Hydrology/Geomorphology/Colorado related.

Costa, J. E.; and Jarrett, R. D. 1981. Debris flows in small mountain stream channels of Colorado and their hydrologic implications. *Bulletin of the Association of Engineering Geologists*. 18: 309-322.  
Geomorphology/Hydrology/Colorado related.

Dawdy, D. R. 1991. Hydrology of Glen Canyon and the Grand Canyon. In: *Colorado river ecology and dam management*. : National Academy Press: 40-53.  
Hydrology/Colorado related/Stream regulation.

Dekamps, H.; M. Fortune; F. Gazelle; and G. Pautou. 1988. Historical influence of man on the riparian dynamics of a fluvial landscape. *Landscape Ecology*. 1: 163-174.  
Historical/Fluvial geomorphology/Riparian ecology//General research related.

Denisov, P. P. 1991 Nov 1. An investigation of water-power regimes in stream-flow regulation. *Water resources*. 18(6): 599.  
Stream regulation/Hydrology/General research related.

Dolan, R.; A. Howard; and D. Trimble. 1978. Structural control of the rapids and pools of the Colorado River in the Grand Canyon. *Science*. 202(4363): 629-631.  
Hydrology/Geomorphology/Colorado related.

Dowdy, D. R.; and V. A. Vanoni. 1986. Modeling alluvial channels. *Water Resources Research*. 22(9): 71S-81S.  
Hydrology/Geomorphology/General research related.

Elliott, J. G.; and R. S. Parker. Potential climate-change effects on bed-material entrainment, the Gunnison Gorge, Colorado. 28th Annual Conference and Symposia of the American Water Resources Association; 1992 Nov; Reno, Nevada. 9 pp.  
Climate change/Geomorphology/Gunnison.

Emmett, W. W. 1976. Bedload transport in two large, gravel-bed rivers, Idaho and Washington. Third Federal Inter-Agency Sedimentation Conference. : 4-101-4-114.  
Geomorphology/Other region related.

Florsheim, J. L.; P. Goodwin; and Y. Rubin (Philip Williams & Associates, Ltd., Pier 35 The Embarcadero, S.F., CA 94133, and Dept. of Civil Eng., U. C., Berkley CA 94720). Historic changes in geomorphic and hydrologic processes in the Russian River, California. In managing regulated streams poster session. American Geophysical Union; 1992 Dec.  
Hydrology/Geomorphology/Stream regulation/Other region related.

Flug, M.; W. R. Walker; and G. V. Skogerboe. 1979. Energy-water- salinity: Upper Colorado River Basin. Journal of Water Resources Planning and Management Division, ASCE, Proc. Paper 14844. 105(WR2): 305-315.  
Hydrology/Water quality/Colorado related.

Garde, R. 1980. Yampa River morphological characteristics. In: Simons, D.; R. Li; P. Lagasse; and R. Milhous. Workshop on downstream river channel changes resulting from diversions or reservoir construction. U.S. Fish and Wildlife Service: 29-46.  
Geomorphology/Stream regulation/Colorado related.

Gellis, A.; R. Hereford; and S. A. Schumm. 1991 May 1. Channel evolution and hydrologic variations in the Colorado River basin: factors influencing sediment and salt loads. *Journal of hydrology*. 124(3): 317.  
Hydrology/Geomorphology/Colorado related.

Girty, G. H.; and A. Armitage. 1989 Jul 1. Composition of Holocene Colorado River sand: An example of mixed-provenance sand derived from multiple tectonic elements of the Cordilleran Continental Margin. *Journal of Sedimentary petrology*. 59(4): 597.  
Geomorphology/Colorado related.

Gomez, B.; and M. Church. 1989. An assessment of bed load sediment transport formulae for gravel bed rivers. *Water Resources Research*. 25(6): 1161-1186.  
Hydrology/Geomorphology/General research related.

Graf, W. L. 1980. The effect of dam closure on downstream rapids. *Water Resources Research*. 16(1): 129-136.  
Hydrology/Geomorphology/Stream regulation/General research related.

---. 1978. Fluvial adjustments to the spread of tamarisk in the Colorado Plateau region. *Geological Society of America Bulletin*. 89: 1491-1501.  
Riparian vegetation/Riparian ecology//Fluvial geomorphology/ Colorado related.

---. 1987. Geomorphic systems of North America, Centennial Special Vol. 2. : Geological Society of America. Regional geomorphology: Colorado Plateau, Rocky Mountains and other regions. Extensive bibliographies are included with chapters.  
Geomorphology/Colorado related.

---. 1987. Late Holocene sediment storage in canyons of the Colorado Plateau. *Geological Society of America Bulletin*. 99: 261-271.  
Geomorphology/Colorado related.

---. 1979. Rapids in canyon rivers. *Journal of Geology*. 87: 533- 551.  
Hydrology/Geomorphology/General research related.

Gray, J. R.; and G. G. Fisk. 1992. Monitoring radionuclide and suspended-sediment transport in the Little Colorado River basin, Arizona and New Mexico, USA. IAHS publication. (210): 505. Geomorphology/Colorado related.

Gunnison, D.; J. M. Brannon; I. Smith Jr.; G. A. Burton Jr.; and K. M. Preston. 1980. A reaction chamber for study of interactions between sediments and water under conditions of static or continuous flow. Water Research. 14: 1529-1532. Fluvial geomorphology/General research related.

Hansen, W. R. 1987. The Black Canyon of the Gunnison in depth. Tucson, Arizona, USA: Southwest Parks and Monuments Association (Also U. S. Geological Survey Bulletin 1191). 58 pp. Geology/Geomorphology/Gunnison/Historical.

Harvey, M. D.; and R. A. Mussetter. 1992. Mineral bottom geomorphic investigation trip report. Colorado River Recovery Implementation Program: U. S. Fish and Wildlife Service. Fluvial geomorphology/Fisheries biology/Endangered species/ Colorado related.

Heede, R. D. 1976. Stream dynamics: an overview for land managers. General Technical Report RM-72: U. S. Forest Service, U.S.D.A. Fluvial geomorphology/Hydrology/Colorado related.

Herron, W. H. 1917. Profile surveys in the Colorado River basin in Wyoming, Utah, Colorado, and New Mexico. U.S. Geological Survey Water-Supply Paper 396: U.S.G.S. 6 pp. plus 43 plates. Hydrology/Pre-regulation/Colorado related.

Howard, A.; and R. Dolan. 1981. Geomorphology of the Colorado River in the Grand Canyon. The Journal of Geology. 89(3): 269- 298. Colorado related/Geomorphology.

Hubbell, D. W.; and D. Q. Matejka. 1959. Investigations of sediment transportation, Middle Loup River at Dunning, Nebraska. Geological Water-Supply Paper 1476. Hydrology/Geomorphology/Other region related.

Hupp, C. R. 1988. Plant ecological aspects of flood geomorphology and paleoflood history. In: Baker, V. R.; R. K. Kochel; and P. C. Patton, eds. Flood Geomorphology. Published by Wiley. Riparian vegetation/Hydrology/Geomorphology/General research related.

---. 1992 Aug 1. Riparian vegetation recovery patterns following stream channelization: a geomorphic perspective. Ecology. 73(4): 1209. Riparian ecology/Geomorphology/Riparian vegetation/Stream regulation/General research related.

Irons, W. V.; C. H. Henbree; and G. L. Oakland. 1965. Water resources of the Upper Colorado River Basin - technical report - introduction and summary. U. S. Geological Survey: U.S.D.I.; Professional Paper 441-A. 370 pp. Hydrology/Colorado related.

Josberger, E. G.; and E. Beauvillain. 1989. Snow cover of the Upper Colorado River Basin from satellite passive Microwave and visual imagery. Nordic hydrology. 20(2): 73. Hydrology/Photo documentation/Colorado related.

Kaplinski, M. A.; J. Hazel; H. M. Mayes; S. S. Beus; and L. Stevens (Northern Arizona University, Geology Department, Flagstaff, AZ 86011-6030 and NPS-RMD, Grand Canyon, AZ 86023). The influence of

variable discharge regimes on Colorado River sand bars below Glen Canyon dam. American Geophysical Union; 1992 Dec.  
 Stream regulation/Geomorphology/Colorado related.

Karr, J. R.; and I. J. Schlosser. 1978. Water resources and the land-water interface. *Science*; 201: 229-234.  
 Geomorphology/General research related.

Kellerhals, R. 1980. Yampa River. Simons, D.; R. Li; P. Lagasse; and R. Milhous, editors. *Workshop on downstream river channel changes resulting from diversions or reservoir construction*. U.S. Fish and Wildlife Service: 47-54.  
 Stream regulation/Geomorphology/Colorado related.

Knopf, F. L.; and M. L. Scott. 1990. Altered flows and created landscapes in the Platte River headwaters, 1840-1990. In: Sweeney, J. M., ed. *Management of dynamic ecosystems*. West Lafayette, Indiana, USA: The Wildlife Society, North Central Section: 47-70.  
 Stream regulation/Other region related/Geomorphology.

Komar, P. D. Applications of grain-pivoting and sliding analyses to selective particle entrainment of gravel and to flow- competence evaluations. *Sedimentology*.  
 Hydrology/Geomorphology/General research related.

---. Flow-competence evaluations of the hydraulic parameters of floods: an assessment of the technique. *British Geomorphology Research. Flood Volume*.  
 Hydrology/Geomorphology/General research related.

---. 1988. Sediment transport by floods. In: Baker, V. R.; R. C. Kochel; and P. C. Patton, eds. *Flood Geomorphology*. Wiley.  
 Hydrology/Geomorphology/General research related.

---. 1987. Selective gravel entrainment and the empirical evaluation of flow competence. *Sedimentology*. 34: 1165-1176.  
 Hydrology/Geomorphology/General research related.

Kondolf, G. M.; and P. Wilcock (Department of Landscape Architecture, University of California, Berkeley CA 94702; 510- 642-2904, and Department of Geography and Environmental Engineering, Johns Hopkins University, Baltimore, MD 21218; 410- 526-5421). The flushing flow problem. American Geophysical Union; 1992 Dec.  
 General research related/Hydrology/Unknown region.

Kondolf, G. M.; G. F. Cada; and M. J. Sale. 1987. Assessing flushing-flow requirements for brown trout spawning gravels in steep streams. *Water Resources Bulletin*. 23: 127-135.  
 Hydrology/Geomorphology/Fisheries biology/Unknown region.

Kostaschuk, R. A.; G. M. McDonald; and P. E. Putnam. 1986. Depositional processes and alluvial fan-drainage basin morphometric relationships near Banff, Alberta, Canada. *Earth Surface Processes and Landforms*. 11: 471-484.  
 Hydrology/Geomorphology/Other region related.

Kovalchik, B. L.; and L. A. Chitwood. 1990 Jun 1. Use of geomorphology in the classification of riparian plant associations in mountainous landscapes of central Oregon, U. S. A. *Forest Ecology and Management*. 33/34(1/4): 605.  
 Geomorphology/Riparian vegetation/Other region related/General research related.

Krishna, J. H.; J. G. Arnold; and C.W. Richardson. Predicting water and sediment yields from agricultural and grassland watersheds. *Modeling Agricultural, Forest, and Rangeland Hydrology*, Proceedings of the 1988 International Symposium; 1988 Dec 12; Chicago, Illinois. American Society of Agricultural Engineers. Hydrology/Geomorphology/General research related.

Lane, L. J.; M. H. Diskin; and K. G. Renard. 1971. Input-output relationships for an ephemeral stream channel system. *Journal of Hydrology*. 13(1): 22-40. Hydrology/Geomorphology/General research related.

Larkin, R. G.; and J. M. Sharp Jr. 1992 Dec. On the relationship between river-basin geomorphology, aquifer hydraulics, and ground-water flow direction in alluvial aquifers. *The Geographical Society of America Bulletin*. Note: 13 pp. Hydrology/Geomorphology/General research related.

Laronne, J. B.; and M. A. Carson. 1976. Interrelationships between bed morphology and bed-material transport for a small gravel-bed channel. *Sedimentology*. 23: 67-85. Hydrology/Geomorphology/General research related.

Laursen, E. M.; and E. Silverston. 1976. Hydrology and sedimentology of the Colorado River in Grand Canyon. *Grand Canyon National Park Report Series: Colorado River Research Program Technical Report No. 13*. NPS document/Geomorphology/Hydrology/Colorado related.

Laursen, E. M.; S. Ince; and J. Pollack. 1976. On sediment transport through the Grand Canyon. *Proceedings of the Third Federal Inter-Agency Sedimentation Conference*. : 4-76-4-87. Hydrology/Geomorphology/Other region related.

Lehre, A. K. Sediment budget of a small California Coast Range drainage basin near San Francisco. In: Davies, T. R. H.; and A. J. Pearce. *Erosion and Sediment Transport in Pacific Rim Steplands*, proceedings of the Christchurch Symposium; 1981 Jan. : IAHS-AISH Publication No. 132. Hydrology/Geomorphology/Other region related.

Leopold, L. B. 1969. The rapids and the pools - Grand Canyon. *Geological Survey Professional Paper 669*. Geomorphology/Hydrology/Colorado related.

Leopold, L. B.; and T. Dunne. 1978. *Water in Environmental Planning*. New York: W. H. Freeman and Co. Hydrology/Freshwater ecology/General research related.

Leopold, L. B.; M. G. Wolman; and J. P. Miller. 1964. *Fluvial processes in geomorphology*. San Francisco, California: W. H. Freeman. Fluvial geomorphology/General research related.

Ligon, F. K.; W. E. Dietrich; and W. J. Trush. 1995. Downstream ecological effects of dams. *BioScience*. 45(3): 183-192. Riparian ecology/Stream regulation/Freshwater ecology/General research related/Geomorphology.

Lisle, T. E. 1987. Overview: channel morphology and sediment transport in steepland streams. In: Beschta, R. L. et al, eds. *Erosion and Sedimentation in the Pacific Rim*, Proceedings of an International Symposium at Oregon State University, Corvallis, OR; 1987 Aug 3. IAHS Publication No. 165. Hydrology/Geomorphology/General research related.

Lohman, S. W. Abandonment of the Unaweep Canyon, Mesa County, Colorado, by capture of the Colorado and Gunnison Rivers. U.S. Geological Survey Research. 1961: B144-B146.  
Stream regulation/Gunnison/Geomorphology/Colorado related.

Lyons, J. 1989. Green River channel characteristics below Flaming Gorge. Denver, Colorado: U. S. Bureau of Reclamation, U.S.D.I.  
Geomorphology/Colorado related/Stream regulation.

Lyons, J. K.; M. J. Pucherelli; and R. C. Clark. 1992. Sediment transport and channel characteristics of a sand-bed portion of the Green River below Flaming Gorge Dam, Utah, USA. *Regulated Rivers: Research and Management*. 7: 219-232.  
Geomorphology/Colorado related/Stream regulation.

McAda, C. W.; and L. R. Kaeding. 1991. Physical changes in the Gunnison and Colorado Rivers resulting from construction of the Aspinall Unit and related projects, with hypotheses to assess the effects on the endangered fishes; final report. Grand Junction, Colorado: U.S. Fish and Wildlife Service. 60 pp.  
The purpose of this document is to: 1) describe changes in the Gunnison and upper Colorado rivers as a result of the Aspinall Unit and the two recent projects, and 2) to hypothesize how these changes have affected the native fish community. This information will be used to design studies to test these hypotheses and to assess the benefits for endangered fishes that could be achieved by reoperating the Aspinall Unit.  
Fluvial geomorphology/Fisheries biology/Gunnison/Endangered species/Stream regulation.

Meade, R. H.; T. R. Yuzyk; and T. J. Day. 1990. Movement and storage of sediment in rivers of the United States and Canada. Pages 255-280 in: M. G. Wolman and H. C. Riggs, eds. *Surface Water Hydrology*. Boulder, Colorado: Geological Society of America.  
Fluvial geomorphology/General research related/Other region related.

Mears, A. I. 1978. Flooding and sediment transport in a small alpine drainage basin in Colorado. *Geology*. 7(1): 53-57.  
Hydrology/Geomorphology/Colorado related.

Milhous, R. T. 1986. Determining instream flows for flushing of rivers and channel maintenance - a review. *Proceedings, Hydrology Days, Amer. Geophysical Union*; 1986 Apr; Ft. Collins, Colorado.  
General research related/Fluvial geomorphology/Stream regulation.

Minckley, W. L.; and G. K. Meffe. 0310. Differential selection by flooding in stream fish communities in the arid American Southwest. Pages 93-105 In: W. J. Matthews and D. C. Heins. *Community and evolutionary ecology of North American stream fishes*. Norman: University of Oklahoma Press; cpp.  
Fisheries biology/Hydrology/Freshwater ecology/General research related.

Moulder, E. A. 1960. Memorandum on the ground water investigation of the north rim of the Black Canyon of the Gunnison National Monument, Colorado. Fort Collins, CO: National Park Service, (on file) Water Resources Division.  
WRD file/Hydrology/Gunnison/NPS document/Pre-regulation.

Murphy, E. C. 1906. Discussion of flood conditions on Purgatory, Grand, and Gunnison rivers. In: *Destructive floods in the United States in 1905*. Water-Supply paper 162: U.S. Geological survey. 105 pp.  
Historical/Gunnison/Fluvial geomorphology/Pre-regulation.

Nash, L. L.; and P. H. Gleick. 1991 Jul 1. Sensitivity of streamflow in the Colorado Basin to climatic changes. *Journal of Hydrology*. 125(3): 221.  
Hydrology/Climate change/Colorado related.

National Park Service, U.S.D.I. 1990. J. Riedel, project manager. Skagit River project (FERC No. 553) report on existing conditions of reservoir and streambank erosion. submitted by Seattle City Light. 96 pp. Reservoir operation and management/Stream regulation/ Geomorphology/Other region related.

O'Brien, J. S. 1987. Analysis of minimum streamflow and sediment transport in the Yampa River, Dinosaur National Monument. Fort Collins, Colo.: Colorado State University Engineering Research Center report. 21 pp. Hydrology/Geomorphology/Colorado related.

Osborn, H. B.; and J. R. Simanton. 1989. Gullies and sediment yield. *Rangelands*. 11(2). Geomorphology/Hydrology/General research related.

Parker, G. 1980. Downstream response of gravel-bed streams to dams: an overview. Pages 792-801 in: H. G. Stefan, ed. *Proceedings of the Symposium on Surface Water Impoundments*. New York: American Society of Civil Engineers. Fluvial geomorphology/General research related/Stream regulation.

Parker, R. S.; J. M. Nelson; J. G. Elliot; and W. P. Carey (United States Geological Survey, WRD, MS-415, Box 25046, DFC, Lakewood, CO 80225; 303-236-4882). Changes in bed mobility due to altered streamflows in cobble-bedded mountain streams in the Gunnison River Basin, Colorado. American Geophysical Union; 1992 Dec. Stream regulation/Fluvial geomorphology/Gunnison.

Pemberton, E. L. Channel changes in the Colorado River below Glen Canyon Dam. *Proceedings of the Third Federal Inter-Agency Sedimentation Conference*. 1976: 5-61-5-73. Stream regulation/Geomorphology/Colorado related.

Pemberton, E. L.; and T. J. Randle. Colorado River sediment in Grand Canyon. *Proceedings of the Fourth Federal Inter-Agency Sedimentation Conference*. 1986: 4-120-4-130. Geomorphology/Colorado related.

Petit, F. 1990. Evaluation of grain shear stresses required to initiate movement of particles in natural rivers. *Earth Surface Processes and Landforms*. 15: 135-148. Hydrology/Geomorphology/Colorado related.

Petsch, H. E. 1983. Streamflow statistical summaries for Colorado streams through September 30, 1975. Lakewood, Colorado: U. S. Geological Survey Open-file Report No. 83-693, vol. 3. Hydrology/Stream regulation/Colorado related.

Pucherelli, M. J.; R. C. Clark; and R. D. Williams. 1990. Mapping backwater habitat on the Green River as related to the operation of Flaming Gorge Dam using remote sensing and GIS. Denver, Colorado: United States Bureau of Reclamation Research and Laboratory Services Division report; R-90-18. 11 pp. Photo documentation/Stream regulation/Geomorphology/Fisheries biology/Colorado related.

Pugh, C. A. 1982. Hydraulic model studies of landslide-generated water waver-Morrow Point Reservoir. 60 pp. Reservoir operation and management/Hydrology/Geomorphology/ Gunnison.

Randle, T. J.; R. I. Strand; and A. Streifel. 1993. Engineering and environmental considerations of Grand Canyon sediment management. Denver, Colorado: United States Bureau of Reclamation report. 12 pp. Geomorphology/Colorado related.

Reid, I.; and L.E. Frostick. 1986. Dynamics of bedload transport in Turkey Brook, a coarse-grained alluvial channel. *Earth Surface Processes and Landforms*. 11: 143-155.  
Hydrology/Geomorphology/Other region related.

Rubin, D. M.; J. C. Schmidt; and J. N. Moore. 1990 Nov 1. Origin, structure, and evolution of a reattachment bar, Colorado River, Grand Canyon, Arizona. *Journal of Sedimentary Petrology*. 69(6): 982.  
Geomorphology/Colorado related.

S. E. L. & Associates. Rivers: studies in the science, environmental policy, and the law of instream flow.  
Water law/Hydrology/Stream regulation/Colorado related.

Schmidt, J. C. 1990. Recirculating flow and sedimentation in the Colorado River in Grand Canyon, Arizona. *The Journal of Geology*. 98(5): 709-724.  
Hydrology/Geomorphology/Colorado related.

Schumm, S. A. 1977. The fluvial system. : John Wiley and Sons, Inc.  
General research related/Fluvial geomorphology.

Schwartz, S. S. (Interstate Commission on the Potomac River Basin, Rockville, MD; 301-984-1908). Functional analysis of transport criteria for river regulating reservoirs. American Geophysical Union; 1992 Dec.  
Hydrology/Stream regulation/Geomorphology/Other region related.

Sediment Yield Map of Colorado. Prepared by the Colorado Land Use Commission: U. S. Soil Conservation Service, U.S.D.A.; 1974.  
Fluvial geomorphology/Mapping/Colorado related.

Simons, D. B. 1979. Effects of stream regulation on channel morphology. Pages 95-111 in: J. V. Ward and J. A. Stanford, eds. *The Ecology of Regulated Streams*. New York: Plenum Press.  
Fluvial geomorphology/Stream regulation/General research related.

Smillie, G. M.; W. L. Jackson; and D. Tucker (U.S. Dept. of Interior, National Park Service, Water Resources Division). 1992. Colorado River sand budget: Lees Ferry to Little Colorado River including Marble Canyon. Chapter 9 In: ? Fort Collins, Co., Washington, D.C.: NPS, Water Resources Div. 8 pp.  
Geomorphology/Colorado related.

Stevens, M. A. 1988. AB Lateral hydropower project, changes in river morphology. Grand Junction, Colorado: HDR Engineering, Inc., and Bureau of Reclamation. 16 pp.  
Stream regulation/Fluvial geomorphology/Gunnison.

Thornton, L. M. 1975. Applications of geomorphology to land-use planning and recreation at Blue Mesa Reservoir, Gunnison County, Colorado [thesis]. Lawrence, Kansas: University of Kansas. 99 leaves.  
Reservoir operation and management/Geomorphology/Recreation/ Gunnison.

U. S. Army Corps of Engineers, Sacramento District. 1980. Flood hazard information, North Fork Gunnison River, Hotchkiss to Somerset, Delta and Gunnison Counties, Colorado (Gunnison and Uncompahgre Rivers). Sacramento, California: U. S. Army Corps of Engineers, Sacramento District. 11 pp.  
Hydrology/Reservoir operation and management/Gunnison/Colorado related.

U. S. Geological Survey, U.S.D.I. 1989. Analytical results and sample locality map of stream-sediment, heavy-mineral- concentrate, and rock samples from the Gunnison gorge Wilderness Study Area (CO-030-388), Delta and Montrose Counties. Denver, Colorado: U. S. Geological Survey; 89-439. (U. S. Geological Survey open-file report).

Geology/Geomorphology/Gunnison/Colorado related.

---. 1964. Botanical evidence of floods and flood-plain deposition. 35 pp. Geomorphology/Hydrology/Riparian vegetation/General research related.

---. 1984. Summary of basin and streamflow characteristics for selected basins in western Colorado and adjacent states. Open File Report 84-137: Denver, Colorado. Colorado related/Hydrology/Stream regulation.

---. Water resources data, Colorado. Annual hydrologic data report series. Denver, Colorado: prepared in cooperation with the State of Colorado and with other agencies; Volume 2, Colorado River Basin. Water quality/Hydrology/Colorado related.

---. 1902. Water resources of the State of Colorado. Pre-regulation/Hydrology/Colorado related.

Wang, D. C.; and J. D. Salas. 1991 Dec 1. Forecasting streamflow for Colorado River systems. Completion report. (164). Hydrology/Colorado related.

Webb, R. H.; P. T. Pringle; and G. R. Rink. 1987. Debris flows from the tributaries of the Colorado River, Grand Canyon National Park, Arizona. U. S. Geological Survey Open File Report 87-118: U. S. Geological Survey. Hydrology/Geomorphology/Colorado related.

Webb, R. H.; P. T. Pringle; S. L. Reneau; and G. R. Rink. 1988. Monument Creek debris flow, 1984: implications for formations of rapids on the Colorado River in Grand Canyon National Park. *Geology*. 16(1): 50-54. Hydrology/Geomorphology/Colorado related.

Wells, S. G.; and A. M. Harvey. 1987. Sedimentologic and geomorphic variations in storm-generated alluvial fans, Howgill Fells, Northwest England. *Geologic Society of America Bulletin*. 98: 182-198. Geomorphology/Other region related.

White, W. R.; and T. J. Day. 1982. Transport of graded gravel bed material. Hey, R. D.; J. C. Bathurst; and C. R. Thorn, eds. *Gravel-bed Rivers, Fluvial Processes, Engineering and Management* (published by John Wiley and Sons Ltd.). Hydrology/Geomorphology/General research related.

Wiberg, P. L.; and D. J. Smith. 1987. Calculations of the critical stress for motion of uniform and heterogeneous sediments. *Water Resources Research*. 23(8): 1471-1480. Geomorphology/General research related.

Wiele, S. M.; and J. D. Smith (USGS PO Box 25046 MS 458, Denver, CO 80225, 303-541-3001). Modeling of flow in the Colorado River through the Grand Canyon. *American Geophysical Union*; 1992 Dec. Hydrology/Colorado related.

Williams, G. P.; and M. G. Wolman. 1984. Downstream effects of dams on alluvial rivers. *U.S. Geological Survey Professional Paper* 1286: U.S.G.S. Stream regulation/Fluvial geomorphology/General research related.

## FRESHWATER ECOLOGY: LIMNOLOGY/FISHERIES BIOLOGY/AQUATIC INVERTEBRATES/INVERTEBRATES/AQUATIC VEGETATION

Alexander, C. P. Records and descriptions of North American craneflies (Diptera). III. *Tipuloidea* of the upper Gunnison Valley, Colorado. American Midland Naturalist. 29: 147-179.  
Invertebrates/Gunnison.

Allan, J. D. 1981. Determinants of diet of brook trout (*Salvelinus fontinalis*) in a mountain stream. Canadian Journal of Fisheries and Aquatic Science. 38: 184-192.  
Fisheries biology/Gunnison.

---. 1978. Diet of brook trout (*Salvelinus fontinalis* Mitchell) and brown trout (*Salmo trutta* L.) in an alpine stream. Verhandlungen der Internationale Vereinigung fuer Theoretische und Angewandte Limnologie. ; 20: 2045-2050.  
Fisheries biology/Gunnison.

---. 1975. The distributional ecology and diversity of benthic insects in Cement Creek, Colorado. Ecology. 56: 1040-1053.  
Aquatic invertebrates/Gunnison.

---. 1982. The effects of reduction in trout density on the invertebrate community of a mountain stream. Ecology. 63: 1444- 1455.  
Aquatic invertebrates/Fisheries biology/Gunnison.

---. 1983. Food consumption by trout and stoneflies in a Rocky Mountain stream, with comparison to prey standing crop. In: T. D. Fontaine and S.M. Bartell, eds. Dynamics of Lotic Systems. Ann Arbor: Ann Arbor Publishers: 371-390.  
Fisheries biology/Aquatic invertebrates/Gunnison.

---. 1984. Hypothesis testing in ecological studies of aquatic insects. In: V.H. Resh and D.M. Rosenberg, eds. The Ecology of Aquatic Insects. New York: Praeger: 484-507.  
Aquatic invertebrates/Gunnison.

---. 1987. Macroinvertebrate drift in a Rocky Mountain stream. Hydrobiologia. 144: 261-268.  
Aquatic invertebrates/Gunnison.

---. 1983. Predator-prey relationships in streams. In: G.W. Minshall and J.R. Barnes, eds. Stream Ecology. New York: Plenum Press: 191-229.  
Freshwater ecology/Gunnison.

---. 1984. The production ecology of *Ephemeroptera* in a Rocky Mountain stream. Verhandlungen der Internationale Vereinigung fuer Theoretische und Angewandte Limnologie. 22: 3233-3237.  
Aquatic invertebrates/Gunnison.

---. 1984. The size composition of invertebrate drift in a Rocky Mountain stream. Oikos. 34: 68-76.  
Aquatic invertebrates/Gunnison.

---. 1978. Trout predation and the size composition of stream drift. Limnology and Oceanography. 23: 1231-1237.  
Fisheries biology/Invertebrates/Gunnison.

Allan, J. D.; and N. C. McClintock. 1986. Diel epibenthic activity of mayfly nymphs, and its non-concordance with behavioral drift. *Limnology and Oceanography*. 31: 1057-1065.  
Aquatic invertebrates/Gunnison.

Allan, J. D.; and B.P. Feifarek. 1989. Distances travelled by drifting mayfly nymphs: factors influencing return to the substrate. *North American Benthological Society, Journal*. 8(4): 322-330.  
Aquatic invertebrates/Gunnison.

Allan, J. D.; and A. S. Flecker. 1989. The mating biology of a mass-swarming mayfly. *Animal Behavior*. 37: 361-371.  
Aquatic invertebrates/Gunnison.

---. 1988. Prey preference in stoneflies: a comparative analysis of prey vulnerability. *Oecologia*. 76: 496-503.  
Aquatic invertebrates/Gunnison.

Allan, J. D.; and E. Russek. 1985. The quantification of stream drift. *Canadian Journal of Fisheries and Aquatic Science*. 42: 210-215.  
Freshwater ecology/Gunnison.

Allan, J. D.; A. S. Flecker; and N. C. McClintock. 1987. Prey preference of stoneflies: sedentary vs. mobile prey. *Oikos*. 49: 323-332.  
Aquatic invertebrates/Gunnison.

Allan, J. D.; A. S. Flecker; and N. L. McClintock. 1987. Prey size preference of carnivorous stoneflies. *Limnology and Oceanography*. 32: 864-872.  
Aquatic invertebrates/Gunnison.

Andrews, E. D. 1986. Downstream effects of Flaming Gorge Reservoir on the Green River, Colorado and Utah. *Geological Society of America Bulletin*. 97: 1012-1023.  
Freshwater ecology/Stream regulation/Colorado related.

Archer, D. L.; and H. M. Tyus. 1984. Colorado squawfish spawning study, Yampa River. Salt Lake City, Utah: U. S. Fish and Wildlife Service, Colorado River Fishery Project. 34 pp.  
Endangered species/Fisheries biology/Colorado related.

Archer, D. L.; L. R. Kaeding; and H. M. Tyus. 1986. Colorado River Fishes Monitoring Project, Final Report. Lakewood, Colorado: U. S. Fish and Wildlife Service, U.S.D.I.  
Fisheries biology/Colorado related.

Archer, D. L.; L. R. Kaeding; B. D. Burdick; and C. W. McAda. 1985. A study of the endangered fishes of the Upper Colorado River. Final Report - Cooperative Agreement 14-16-0006-82-959. Grand Junction, Colorado: U. S. Fish and Wildlife Service, U.S.D.I. 134 pp.  
Endangered species/Fisheries biology/Colorado related.

Archuleta, A. S.; R. Krueger; L. DeWeese; and B. Osmundson. 1993. Occurrence of inorganic elements in the Upper Colorado River Basin and implications for threatened and endangered fish. Colorado Field Office: U. S. Fish and Wildlife, Environmental Contaminants Final Report (in preparation).  
Gunnison/Endangered species/Fisheries biology/Water quality/ Colorado related.

Argyle, D. W.; Edmunds, G. F. 1962. Mayflies (*Ephemeroptera*) of the Curecanti Reservoir Basins: Gunnison River, Colorado. Anthropological Papers (Curecanti N.R.A. files). 59: 179-189.

The purpose of the study was to record the fauna and flora of the area. This was necessary because of the future inundation of the area by the proposed construction of the three dams of the Curecanti Project, Cyrstal, Morrow Point, and Blue Mesa dams. This flooding will destroy the habitats of many of the aquatic organisms present in the area. It is also possible that certain species of the limited distribution may be completely eliminated. Mayflies appear to be extremely susceptible to such changes in their environment.

Freshwater ecology/Invertebrates/Pre-regulation/CURE file/ Gunnison.

Armour, C. L. (U.S. Fish and Wildlife Service, National Ecology Research Center, Riverine and Wetland Ecosystems Branch, Fort Collins, Co.) 1991 Dec. Guidance for evaluating and recommending temperature regimes to protect fish. Instream flow information paper 28. U. S. Fish and Wildlife Service: U. S. Dept. of Interior; 90(22). 13 pp.

Fisheries biology/Freshwater ecology/General research related.

Aspi, J.; J. Lumme; and A. Hoikkala. 1993 Jan 1. Reproductive ecology of the boreal riparian guild of *Drosophila*. Ecography. 16(1): 65.

Riparian ecology/Aquatic invertebrates/General research related.

Baker, W. K. 1975. Linkage disequilibrium over space and time in natural populations of *Drosophila montana*. National Academy of Sciences, Proceedings. 72: 4095-4099.

Invertebrates/Gunnison.

Banks, J. L. 1964. Fish species distribution in Dinosaur National Monument during 1961 and 1962 [M. S. Thesis]. Ft. Collins, Colorado: Colorado State University. 96 pp.

Fisheries biology/Pre-regulation/Colorado related.

Bare, L. T. 1927. Distribution of larval trematodes and their mulloscan hosts in the Gunnison area. Gunnison, Colorado: Western State College (thesis). 15 leaves.

Aquatic invertebrates/Gunnison.

Bates, B.; T. Chart; and M. Moretti. 1993. Colorado Squawfish Interagency Standardized Monitoring Program, Utah, 1986-90, Lower Green and Colorado Rivers.

Fisheries biology/Colorado related.

Bayley, Peter B. 1995. Understanding large river-floodplain ecosystems. BioScience. 45(3): 153-158.

Freshwater ecology/General research related/Riparian ecology.

Behnke, R. J. 1980. The impacts of habitat alterations on the endangered and threatened fishes of the Upper Colorado River Basin: A discussion. In: W. O. Spofford, A. L. Parker, and A. V. Kneese, Editors. Energy development in the Southwest: Problems of water, fish and wildlife in the Upper Colorado River Basin. Washington, D. C.: Resources for the Future, Research Paper R-18; 2: 182-192.

Endangered species/Fisheries biology/Colorado related/Stream regulation.

Behnke, R. L. 1993. Native trout of western North America. Bethesda, Maryland: American Fisheries Society. 275 pp.

Fisheries biology/General research related.

Behnke, R. J. 1993. Native fishes of the Gunnison Basin (reports on ongoing research): 1.) The Gunnison River drainage and its changing fish fauna. Part I: historical perspective (June, 1993), and 2.) Restoration

potential for native cutthroat trout in the Gunnison drainage: summary of Oct. 22, 1993 meeting (Nov., 1993). Fort Collins, Colo.: Dept. of Fishery and Wildlife Biology, Colo. State Univ. Gunnison/Fisheries biology.

---. 1986. Potential impacts of reduced winter flows in Gunnison River on trout reproduction and growth in relation to lower temperatures and ice formation. Fort Collins, Colorado: Colorado State University, Department of Fishery and Wildlife Biology.  
Stream regulation/Freshwater ecology/Gunnison/Fisheries biology.

Behnke, R. J.; and D. E. Benson. 1980. Endangered and threatened fishes of the Upper Colorado River Basin. Ft. Collins, Colorado: Colorado State University, Cooperative Extension Service; Bulletin 503A. 34 pp.  
Endangered species/Fisheries biology/Colorado related.

Beidleman, R. G.; Ferchau, H. A.; Hansen, W. R.; Larson, J. W.; Reed, E. B.; Rominger, J. M. 1968. Natural resources basic data for Curecanti and Black Canyon. Scientific Field Team Report for Midwest Region: National Park Service, U.S.D.I. 100 pp.

This team was interested in providing a basic understanding of the natural resource components and ecosystem dynamics in both the national monument and national recreation area.

Riparian ecology/Freshwater ecology/Stream regulation/Gunnison/BLCA file/CURE file.

Bestgen, K. R. 1990. Status review of the razorback sucker, *Xyrauchen texanus*. Fort Collins, Colorado: Colorado State University Larval Fish Laboratory (Contribution 44). 92 pp.  
Endangered species/Fisheries biology/Colorado related.

Bifoss, C. G. 1927. A survey of the fresh-water molluscs and their trematode parasites in the lower Gunnison area. Gunnison, Colorado: Western State College (thesis). 47 leaves.  
Pre-regulation/Aquatic invertebrates/Gunnison.

Bio/West, Inc. 1981. Aquatic biology studies for proposed Colorado-Ute Electric Association powerplant near Grand Junction, Colorado. Logan, Utah: Bio/West, Inc., unpublished report. 66 pp. Aquatic invertebrates/Colorado related/Fisheries biology/ Freshwater ecology.

Boggs, C. L. 1987. Demography of the unsilvered morph of *Speyeria mormonia* (Nymphalidae) in Colorado. Lepidopterist Society, Journal. 41: 94-97.  
Invertebrates/Gunnison.

---. 1987. Ecology of nectar and pollen feeding in Lepidoptera. In: F. Slansky Jr. and J. G. Rodriguez, eds. The Nutritional Ecology of Insects, Mites, and Spiders. New York: John Wiley and Sons. 369-391 pp.  
Invertebrates/Gunnison.

---. 1986. Reproductive strategies of female butterflies. Ecological Entomology. 11: 7-15.  
Invertebrates/Gunnison.

---. 1992. Resource allocation: exploring connections between foraging and life history strategies. Functional Ecology. 6: 508- 518.  
Invertebrates/Gunnison.

---. 1987. Within population variation in the demography of *Speyeria mormonia* (Lepidoptera: Nymphalidae). Holarctic Ecology. 10: 175-184.  
Invertebrates/Gunnison.

Boggs, C. L.; and C. L. Ross. 1993. The effect of adult food limitation on life history traits in *Speyeria mormonia* (Lepidoptera: Nymphalidae). *Ecology*. 74: 433-441.  
Invertebrates/Gunnison.

Boggs, C. L.; and L. A. Jackson. 1991. Mud puddling by butterflies is not a simple matter. *Ecological Entomology*. 16: 123-127.  
Invertebrates/Gunnison.

Bosley, C. E. 1960. Pre-impoundment study of the Flaming Gorge Reservoir. Wyoming Game and Fish Commission: Technical Report 9. 1-81.  
Fisheries biology/Pre-regulation/Colorado related.

Bowen, J. R. 1971. Mosquitoes of the Gunnison River Drainage, Colorado. Gunnison, Colorado: Western State College of Colorado. 246 leaves.  
Gunnison/Aquatic invertebrates.

Bozek, M. A.; and F. J. Rahel. 1991 Sep 12. Assessing habitat requirements of young Colorado River cutthroat trout by use of macrohabitat and microhabitat analyses. *Transactions of the American Fisheries Society*. 120(5): 571.  
Fisheries biology/Colorado related.

---. 1991 Dec. Comparison of streamside visual counts to electrofishing estimates of Colorado River cutthroat trout fry and adults. *North American Journal of Fisheries Management*. 11(1): 38.  
Fisheries biology/Colorado related.

---. 1992 Mar 1. Generality of microhabitat suitability models for young Colorado River cutthroat trout (*Oncorhynchus clarki* pleuriticus) across sites and among years in Wyoming streams. *Canadian Journal of Fisheries and Aquatic Science*. 49(3): 552.  
Fisheries biology/Colorado related.

Bozek, M. A.; L. J. Paulson; and J. E. Deacon. 1984. Factors affecting reproductive success of bonytail chubs and razorback suckers in Lake Mohave, Final Report, 14-16-0002-81-251. Boulder City, Nevada: Bureau of Reclamation.  
Endangered species/Fisheries biology/General research related.

Bramblett, R. G.; and K. D. Fausch. 1991 Sep 1. Fishes, macroinvertebrates and aquatic habitats of the Purgatoire River in Pinon Canyon, Colorado. *The Southwestern Naturalist*. 36(3): 281.  
Aquatic invertebrates/Fisheries biology/Freshwater ecology/ Colorado related.

Bulkley, R. V.; and R. Pimental. 1983. Temperature preference and avoidance by adult razorback suckers. *Transactions of the American fisheries Society*. 112: 601-607.  
Fisheries biology/Endangered species/Colorado related.

Burdick, B. D. 1992. A plan to evaluate stocking to augment or restore razorback sucker in the Upper Colorado River. Grand Junction, Colorado: U. S. Fish and Wildlife Service. 56 pp.  
Endangered species/Fisheries biology/Colorado related.

Burdick, B. D.; and L. R. Kaeding. 1990. Biological merits of fish passage as part of recovery of Colorado squawfish in the Upper Colorado River Basin, final report. Grand Junction, Colorado: U. S. Fish and Wildlife Service. 23 pp.  
Endangered species/Fisheries biology/Colorado related.

---. Reproductive ecology of the humpback chub and the roundtail chub in the Upper Colorado River; 1985. Proceedings of the Annual Conference of Western Association of Game and Fish Agencies: 65: 163 (abstract).  
 Endangered species/Fisheries biology/Colorado related.

Burdick, B. D.; and R. L. Hamman. 1993. A study to evaluate several tagging and marking systems for Colorado squawfish, razorback sucker, and bonytail chub. Denver, Colo.: U. S. Fish and Wildlife Service. (Colorado River Recovery Implementation Program Reports).  
 Endangered species/Fisheries biology/Colorado related.

Burkhard, W. T.; N. F. Smith; T. A. Lytle; and H. E. Burdick Sr. 1979. Final report for fish and wildlife resource analysis of the Grand Mesa project. Contract 7-07-40-S0425: Colorado Division of Wildlife. Fisheries biology/Stream regulation/Wildlife biology/Gunnison.

Butler, D. L.; et al. 1991. Reconnaissance investigation of water quality, bottom sediment, and biota associated with irrigation drainage in the Gunnison and Uncompahgre River basins and at Sweitzer Lake, west-central Colorado, 1988-89. Denver, Colorado: U.S.D.I., U. S. Geological Survey, Books and Open File Reports Section; prepared in cooperation with the U. S. Fish and Wildlife Service and the U. S. Bureau of Reclamation; 91-4103. 99 pp.  
 Freshwater ecology/Geomorphology/Water quality/Gunnison/Colorado related.

Cairns, J. Jr. 1991. Can microbial species with a cosmopolitan distribution become extinct? Speculations in Science and Technology. 14(7): 33-42.  
 Freshwater ecology/General research related.

---. 1988. Global climate/ecosystem monitoring: inland aquatics. Speculations in Science and Technology. 13(1): 71-80.  
 Freshwater ecology/General research related.

---. 1967. Probable existence of synergistic interactions among different species of protozoans. Revista de Biologica. 6: 103- 108.  
 Freshwater ecology/Gunnison.

Cairns, J. Jr.; and W. H. Yongue, Jr. 1973. The effect of an influx of new species on the diversity of protozoan communities. Revista de Biologia. 9: 187-206.  
 Freshwater ecology/Gunnison.

Cairns, J. Jr.; and J. R. Pratt. 1990. Methods for studying dynamics of fresh water protozoan communities under natural and anthropogenic stress. In: W. Foissner, ed. Symposium: Dynamics of Ecology of Free-Living Protozoa (Zool. Sci. 7, Supplement). : 155-165.  
 Freshwater ecology/Gunnison/General research related.

Carlson, C. A.; G. G. Prewitt; D. E. Snyder; E. J. Wick; E. L. Ames; and W. D. Frank. 1979. Fishes and macroinvertebrates of the White and Yampa Rivers, Colorado. Denver, Colorado: U. S. Bureau of Land Management, U.S.D.I.; Biological Science Series No. 1. 276 pp.  
 Fisheries biology/Aquatic invertebrates/Colorado related.

Carothers, S. W.; and C. O. Minckley. 1981. A survey of the fishes, Aquatic invertebrates and aquatic plants of the Colorado River for selected tributaries from Lees ferry to Separation Rapids. Flagstaff, Arizona: Museum of Northern Arizona; U. S. Bureau of Reclamation contract 7-07030-C0026.  
 Fisheries biology/ Aquatic invertebrates/Colorado related.

Chamberlain, T. K. 1946. Fishes, particularly the suckers, *Catostomidae*, of the Colorado River Drainage and of the Arkansas River Drainage, in relation to the Gunnison-Arkansas transmountain diversion. College Station, Texas: U. S. Fish and Wildlife Service, U.S.D.I.

Fisheries biology/Colorado related/Pre-regulation.

Chart, T. E. 1992 Mar 1. Impact of mainstream impoundment on the distribution and movements of the resident flannelmouth sucker (*Catostomus latipinnis*) population in the White River, Colorado. *The Southwestern Naturalist*. 37(1): 9.

Fisheries biology/Stream regulation/Colorado related.

Colborn, T. 1981. Aquatic insects as measures of trace element presence: cadmium and molybdenum. Gunnison, Colorado: Western State College of Colorado (thesis). 157 leaves.

Aquatic invertebrates/Gunnison.

---. 1982. Aquatic insects as measures of trace element presence in water: cadmium and molybdenum. In: J. G. Pearson, R. G. Foster and W. E. Bishop, eds. *Aquatic Toxicology and Hazard Assessment: Fifth Conference*. Philadelphia: American Society for Testing and Materials: 316-325.

Aquatic invertebrates/Gunnison/General research related.

---. 1982. Measurements of low levels of molybdenum in the environment using aquatic insects. *Bulletin of Environmental Contamination and Toxicology*. 29: 422-428.

Water Quality/Aquatic invertebrates/Gunnison.

Colorado Water Conservation Board. 1993. State of Colorado hatchery feasibility study for endangered fishes of the Colorado River Basin, Vols. 1 and 2. Denver., Colo.: Colorado River Recovery Implementation Program.

Fisheries biology/Endangered species/Colorado related.

Cooper, S. D.; S. J. Wilde; and B. L. Peckarsky. 1990. Prey exchange rates and the impact of predators on prey populations in streams. *Ecology*. 71: 1503-1514.

Aquatic invertebrates/Freshwater ecology/Gunnison/General research related.

Copeland, H. L. 1989. Seasonal and diel invertebrate drift patterns in regulated streams.

Aquatic invertebrates/Stream regulation/General research related.

Cowan, C. A.; and B. L. Peckarsky. 1990. Feeding of a lotic mayfly grazer as quantified by gut fluorescence. *North American Benthological Society, Journal*. 9: 368-378.

Freshwater ecology/Gunnison/General research related/Aquatic invertebrates.

Day, J. S. 1975. Fish of the Black Canyon of the Gunnison National Monument (unpublished report). Black Canyon of the Gunnison N.M.: National Park Service. 21 pp.

Fish of the Black Canyon National Monument was a study to determine facts on the fish populations on the Gunnison River inside Black Canyon National Monument. Rainbow trout marked with fluorescent pigments at Blue Mesa Dam upstream were not found inside the monument indicating a poor survival rate through the turbines for any fish moving downstream.

Fisheries biology/BLCA file/Gunnison.

Dean, A. M. 1983. Lake water intakes under icing conditions.

Freshwater ecology/General research related.

Dodson, S. I. 1976. Zooplankton: specific distribution and food abundance. *Limnology and Oceanography*. 21: 309-313.  
 Freshwater ecology/Gunnison/General research related.

Dodson, V. E. 1975. The distribution and habitat separation of three corixids (*Hemiptera: Heteroptera*) in western Colorado. *Freshwater Biology*. 5: 141-150.  
 Freshwater ecology/Invertebrates/Gunnison/General research related.

---. 1975. Life histories of three species of *Corixidae* (*Hemiptera: Heteroptera*) from western Colorado. *American Midland Naturalist*. 94: 257-266.  
 Freshwater ecology/Invertebrates/Gunnison/General research related.

Douglas M. E.; and P. C. Marsh. 1993. Ecology and conservation biology of the humpback chub (*Gila cypha*) in the Little Colorado River; progress report to Bureau of Reclamation. Tempe, Arizona: Arizona State University; Cooperative Agreement No. 1-FC-40- 10490. 8 pp.  
 Endangered species/Fisheries biology/Colorado related.

Douglas, M. E.; W. L. Minckley; and H. M. Tyus. 1989 Aug 8. Qualitative characters, identification of Colorado River Chubs (Cyprinidae: genus *Gila*), and the 'Art of Seeing Well'. *Copeia*. (3): 653.  
 Endangered species/Fisheries biology/Colorado related.

Ecology Consultants, Inc. 1978. Capture locations of rare fish in the Upper Colorado River system; final report. Fort Collins, Colorado: U. S. Fish and Wildlife Service, U.S.D.I.; FWS/OBS-78/ 32. 44 pp.  
 Endangered species/Fisheries biology/Colorado related.

Ehrlich, P. R.; and R. R. White. 1980. Colorado checkerspot butterflies: isolation, neutrality, and the biospecies. *American Naturalist*. 115: 328-341.  
 Invertebrates/Gunnison/Colorado related.

Ellis, M. M. 1914. Fishes of Colorado. Boulder, Colorado: University of Colorado Studies; Vol 11(1). 136 pp.  
 Fisheries biology/Colorado related/Pre-regulation.

Espergen, G. G.; D. D. Miller; and R. B. Nehring. 1990. Modeling the effects of various angling regulations on trout populations in Colorado streams. Special Report Number 67: Colorado Division of Wildlife. 24 pp.  
 Fisheries biology/Recreation/Colorado related.

Flecker, A. S.; and J. D. Allan. 1987. Flight direction in some Rock Mountain mayflies, with observations of parasitism. *Aquatic Insects*. 10(1): 33-42.  
 Aquatic invertebrates/Gunnison.

Fuller, R. L.; and K. W. Stewart. 1977. The food habits of stoneflies (*Plecoptera*) in the upper Gunnison River, Colorado. *Environmental Entomology*. 6: 293-302.  
 Aquatic invertebrates/Gunnison.

Gilpin, Michael. 1993. A population viability analysis of the Colorado squawfish in the Upper Colorado River Basin: A report to the United States Fish and Wildlife Service, Denver, Colorado. Denver, Colo.: submitted to Colorado River Recovery Implementation Program.  
 Fisheries biology/Endangered species/Colorado related.

Gorman, O. T.; S. C. Leon; O. E. Maughan. 1993. Habitat use by humpback chub, *Gila cypha*, in the Little Colorado River and other tributaries of the Colorado River in the Grand Canyon; annual report to Bureau

of Reclamation. Pinetop, Arizona: U. S. Fish and Wildlife Service; Glen Canyon Environmental Studies Phase II. 34 pp.  
 Fisheries biology/Endangered species/Colorado related.

Gosse, J. C. 1985. Microhabitat of trout in tailwaters below western dams.  
 Fisheries biology/Stream regulation/Other region related.

Gup, T. 1994. Dammed from here to eternity: dams and biological integrity. *Trout*. 35: 14-20.  
 Freshwater ecology/Stream regulation.

Haines, G. B.; and H. M. Tyus. 1989. Influence of environmental factors on distribution and abundance of age-0 Colorado squawfish in the Green River, Utah. Colorado River Recovery Implementation Program: U. S. Fish and Wildlife Service.  
 Fisheries biology/Endangered species/Colorado related.

Harvey, M. D.; and R. A. Mussetter. 1992. Mineral bottom geomorphic investigation trip report. Colorado River Recovery Implementation Program: U. S. Fish and Wildlife Service.  
 Fluvial geomorphology/Fisheries biology/Endangered species/ Colorado related.

Hauer, F. R.; J. A. Stanford; and J. V. Ward. 1989. Serial discontinuities in a Rocky Mountain river. II. Distribution and abundance of *Trichoptera*. In: Regulated Rivers, Research and Management. John Wiley & Sons, Ltd.; Vol. 3.: 177-182.  
 Aquatic invertebrates/Gunnison.

Hawkins, J. A. 1991. Age and growth of Colorado squawfish from the Upper Colorado River Basin, 1978-1990. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service.  
 Fisheries biology/Endangered species/Colorado related.

Hawkins, J. A.; and T. P. Nesler. 1991. Nonnative fishes in the Upper Colorado River Basin: an issue paper. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service.  
 Fisheries biology/Endangered species/Colorado related.

Haynes, C. M.; and R. T. Muth. 1982. Identification of habitat requirements and limiting factors for Colorado squawfish and humpback chubs. Federal Aid Project Progress Report, SE-4: Colorado Division of Wildlife. 43 pp.  
 Fisheries biology/Endangered species/Colorado related.

---. 1984. Identification of habitat requirements and limiting factors for Colorado squawfish and humpback chubs. Federal Aid Project Progress Report, SE-3: Colorado Division of Wildlife. 21 pp.  
 Fisheries biology/Endangered species/Colorado related.

Holden, P. B. 1980. The relationship between flows in the Yampa River and success of rare fish populations in the Green River system. Logan, Utah: Bio/West, Inc.; Report PR-31-1. 39 pp.  
 Endangered species/Fisheries biology/Stream regulation/Colorado related.

---. 1978. A study of habitat use and movement of the rare fishes in the Green River, Utah. Transactions of the Bonneville Chapter, American Fisheries Society: 66-89.  
 Endangered species/Fisheries biology/Colorado related.

Holden, P. B.; and T. M. Twedt. 1980. The development of habitat suitability curves and estimation of available habitat for Colorado squawfish in the San Juan River, New Mexico and Utah. Logan, Utah: Bio/West,

Inc.; Report PR-46-1-1.  
Endangered species/Fisheries biology/Colorado related.

Holden, P. B.; and L. W. Crist. 1980. Documentation of changes in the macroinvertebrate and fish populations in the Green River system. Logan, Utah: Bio/West Inc.; Report PR-16-5. 92 pp.  
Endangered species/Fisheries biology/Aquatic invertebrates/ Stream regulation/Colorado related.

---. 1981. Documentation of changes in the macroinvertebrate and fish populations in the Green River due to inlet modification of Flaming Gorge Dam. Logan, Utah: Bio/West Inc.; Report PR-16-5. 92 pp.  
Endangered species/Fisheries biology/Aquatic invertebrates/ Stream regulation/Colorado related.

Holden, P. B.; and E. J. Wick. 1982. Life history and prospects for recovery of Colorado squawfish. Pages 98-108 In: W. H. Miller, H. M. Tyus, and C. A. Carlson, editors. Proceedings of a symposium on fishes of the Upper Colorado River system: present and future. Bethesda, Maryland: American Fisheries Society. 131 pp.  
Fisheries biology/Endangered species/Colorado related.

Holden, P. B.; C. Richards; L. W. Crist; and J. R. Campbell. 1981. Aquatic biology studies for proposed Colorado-Ute Electric Association power plant near Grand Junction, Colorado. Submitted to Burns and McDonnell Planning and Environmental Analysis Division: Kansas City, MO; PR 56-1. 66 pp.  
Pre-regulation/Freshwater ecology/Fisheries biology/Aquatic invertebrates/Colorado related/Hydropower.

Hughes, R. M.; and R. F. Noss. 1992. Biological diversity and biological integrity: current concerns for lakes and streams. *Fisheries*; 17(3): 11-19.  
Freshwater ecology/General research related.

Huner, J. V. 1978. Exploitation of freshwater crayfishes in North America. *Fisheries*. 3(6): 2-19.  
Aquatic invertebrates/Economics/Fisheries biology/General research related.

Hunter, G. W. III; and D. E. Birkenholz. 1960. Notes on larval trematodes from snails of Gunnison County, Colorado. *Journal of Parasitology (Supplement)*. 46: 36-37.  
Invertebrates/Gunnison.

---. 1961. Notes on larval trematodes of Gunnison County, Colorado. *American Microscopical Society, Transactions*. 80: 358- 364.  
Invertebrates/Gunnison.

Hydrosphere Resource Consultants. 1993. Yampa River Basin alternatives feasibility study final report. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service.  
Freshwater ecology/Fisheries biology/Colorado related/Endangered species.

J. A. Gore; and G. E. Petts, eds. 1989. Alternatives in regulated river management. Boca Raton, Florida: CRC Press.  
General research related/Reservoir operation and management/ Stream regulation/Freshwater ecology.

Johnson, B. L.; W. B. Richardson; and T. J. Naimo. 1995. Past, present, and future concepts in large river ecology. *BioScience*. 45(3): 134-141.  
Freshwater ecology/General research related/Riparian ecology.

Joseph, T. W.; J. A. Sining; R. J. Behnke; and P. B. Holden. 1977. An evaluation of the status, life history and habitat requirements of endangered and threatened fishes of the Upper Colorado River system. Fort Collins, Colorado: U. S. Fish and Wildlife Service, U.S.D.I.; FWS/OBS-77/2.

Endangered species/Fisheries biology/Colorado related.

Kaeding, L. R. [and others]. 1990. Temporal and spatial relations between the spawning of humpback chub and roundtail chub in the Upper Colorado River. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service.

Fisheries biology/Endangered species/Colorado related.

Kaeding, L. R.; and D. B. Osmundson. 1989. Biologically defensible flow recommendations for the maintenance and enhancement of Colorado squawfish habitat in the '15-mile' reach of the Upper Colorado River during July, August and September. Grand Junction, Colorado: U. S. Fish and Wildlife Service, U.S.D.I. 169 pp.

Stream regulation/Endangered species/Fisheries biology/Colorado related.

Karp, C. A.; and H. M. Tyus. 1990. Behavioral interactions between young Colorado squawfish and six fish species. Colorado River Recovery Implementation Program.

Fisheries biology/Endangered species/Colorado related.

Kaweka, B. 1990. The effect of flood-control regulation of a montane stream on the communities of sessile algae. *Acta hydrobiologica*. 32(3 / 4): 345.

Freshwater ecology/Vegetation/Stream regulation/General research related.

Kidd, G. T. 1977. An investigation of endangered and threatened fish species in Upper Colorado River as related to Bureau of Reclamation projects; final report to U. S. Bureau of Reclamation. Clifton, Colorado: Northwest Fisheries Research. 36 pp.

Stream regulation/Endangered species/Fisheries biology/Colorado related.

Kinnear, B. S.; and R. E. Vincent. 1967. Fishes and fish in the Black Canyon of the Gunnison National Monument. Fort Collins, Colorado: Colorado State University. 45 pp.

Fisheries biology/Gunnison.

Knight, A. W. 1965. Studies on the stoneflies (*Plecoptera*) of the Gunnison River drainage in Colorado. Ann Arbor, Michigan: University Microfilms International (thesis). 142 leaves.

Aquatic invertebrates/Gunnison.

Knight, A. W.; and D. W. Argylo. 1962. Limited limnological studies of the Gunnison River, Colorado. In: Pendergast, D. M., ed. Ecological studies of the flora and fauna of the Curecanti Reservoir basins, western Colorado. University of Utah Anthropological Papers, No. 59. Upper Colorado Series No. 8. Salt Lake City, Utah: University of Utah Press: 135-149.

Freshwater ecology/Riparian ecology/Riparian vegetation/ Gunnison.

Kondolf, G. M.; G. F. Cada; and M. J. Sale. 1987. Assessing flushing-flow requirements for brown trout spawning gravels in steep streams. *Water Resources Bulletin*. 23: 127-135.

Hydrology/Geomorphology/Fisheries biology/Unknown region.

Kunkle, S.; R. Nickerson; G. Smillie; and R. Andrascik. 1983. Metal concentrations in fish at Curecanti National Recreation Area, Gunnison, Colorado. Curecanti NRA: U.S. National Park Service.

Fisheries biology/Gunnison/Water quality.

Lanigan, S. H.; and H. M. Tyus. 1989. Population size and status of razorback sucker in the Green River basin, Utah and Colorado. *North American Journal of Fisheries Management*. 9: 68-73.

Colorado related/Endangered species/Fisheries biology.

Leopold, L. B.; and T. Dunne. 1978. Water in Environmental Planning. New York: W. H. Freeman and Co. Hydrology/Freshwater ecology/General research related.

Ligon, F. K.; W. E. Dietrich; and W. J. Trush. 1995. Downstream ecological effects of dams. BioScience. 45(3): 183-192. Riparian ecology/Stream regulation/Freshwater ecology/General research related/Geomorphology.

Loudermilk, W. E. Aspects of razorback sucker (*Xyrauchen texanus*, Abbott) life history which help explain their decline. Proceedings of the Desert Fishes Council. 1985; 13(1981): 67-72. Endangered species/Fisheries biology/General research related.

Maddux, H. R.; D. M. Kubly; J. C. deVos, Jr.; W. R. Persons; R. Staedicke; and R. L. Wright. 1987. Effects of varied flow regimes on aquatic resources of Glen and Grand Canyons; final report. Salt Lake City, Utah: U. S. Bureau of Reclamation, U.S.D.I.; Contract 4-AG40-01810. 291 pp. Freshwater ecology/Stream regulation/Colorado related.

Maddux, H. R.; L. A. Fitzpatrick; and W. R. Noonan. 1993 Sep 3. Colorado River endangered fishes critical habitat, draft biological support document. Salt Lake City, Utah: U. S. Fish and Wildlife Service, Utah/Colorado Field Office. 225 pp. Endangered species/Fisheries biology/Colorado related/Freshwater ecology.

Maguire, B. Jr. 1963. The passive dispersal of small aquatic organisms and their colonization of isolated bodies of water. Ecological Monographs. 33: 161-185. Freshwater ecology/Aquatic invertebrates/Gunnison.

Marsh, P. C.; and W. L. Minckley. 1989 Jan 31. Observations on recruitment and ecology of razorback sucker: Lower Colorado River, Arizona-California-Nevada. The Great Basin Naturalist. 49(1): 71-78. Endangered species/Fisheries biology/Colorado related.

Martinez, P. J. 1986A. White River Taylor Draw Project: pre- and post- impoundment fish community investigations; final report. Grand Junction, Colorado: Colorado Division of Wildlife; Contract 5281-x. 121 pp. Fisheries biology/Pre-regulation/Stream regulation/Colorado related.

Masslich, W.; and A. Wasowicz. 1990. Interim report - 1990 overwinter survival of age-0 Colorado squawfish in the Green and Colorado Rivers. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service. Fisheries biology/Endangered species/Colorado related.

McAda, C. 1989. Evaluation of the interagency standardized monitoring program. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service. Fisheries biology/Endangered species/Colorado related.

McAda, C. W. 1993. Evaluation of aerial-video measurement of backwaters as part of the interagency standardized monitoring program for age-0 Colorado squawfish. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife. Fisheries biology/Endangered species/Colorado related.

McAda, C. W.; and L. R. Kaeding. 1991 May 1. Movements of adult Colorado squawfish during the spawning season in the Upper Colorado River. Transactions of the American Fisheries Society. 120(3): 339. Endangered species/Fisheries biology/Colorado related.

---. 1991. Physical changes in the Gunnison and Colorado Rivers resulting from construction of the Aspinall Unit and related projects, with hypotheses to assess the effects on the endangered fishes; final report. Grand Junction, Colorado: U.S. Fish and Wildlife Service. 60 pp.

The purpose of this document is to: 1) describe changes in the Gunnison and upper Colorado rivers as a result of the Aspinall Unit and the two recent projects, and 2) to hypothesize how these changes have affected the native fish community. This information will be used to design studies to test these hypotheses and to assess the benefits for endangered fishes that could be achieved by reoperating the Aspinall Unit. Fluvial geomorphology/Fisheries biology/Gunnison/Endangered species/Stream regulation.

McKean, J. R.; D. M. Johnson; and R. G. Walsh. 1988. Gunnison County interindustry spending and employment attributed to fishing at Blue Mesa Reservoir. Fort Collins, Colorado: Colorado Water Resources Research Institute, Colorado State University; 53. 114 pp. Fisheries biology/Economics/Gunnison.

Median, A. L. 1990 Jun 1. Possible effects of residential development on streamflow, riparian plant communities, and fisheries on small mountain streams in central Arizona. *Forest Ecology and Management*. 33/34(1/4): 335.

Riparian ecology/Stream regulation/Riparian vegetation/Fisheries biology/Other region related/General research related.

Michaels, G. B.; T. Flynn; J. J. Hill; and D. J. Schneck. 1982. Use of bacterial populations in assessing the effects of thermal effluents on water quality of streams. Gunnison, Colorado: Western State College. 26 leaves. Freshwater ecology/Water quality/Gunnison.

Middleton, W. H. 1969. Hybridization and distribution of Catostomid fishes in Blue Mesa Reservoir and the Upper Gunnison River Drainage. Gunnison, Colorado: Western State College of Colorado. 121 leaves. Fisheries biology/Gunnison.

Miller, A. S.; and W. A. Hubert. 1990. Compendium of existing knowledge for use in making habitat management recommendations for the Upper Colorado River Basin. Colorado River Recovery Implementation Program Reports.

Fisheries biology/Endangered species/Colorado related.

Miller, D. D. 1992. Application of a population simulation model to the selection of angling regulations for stream fisheries. 39 pp.

Recreation/Fisheries biology/General research related.

Miller, P. H. 1962. Catalogued fish collections from the Gunnison River Basin, Colorado, in the University of Michigan Museum of Zoology. U. of Michigan: U. of Michigan Museum.

Note: From National Park Service files (n6221).

Fisheries biology/Gunnison/Pre-regulation/BLCA file.

Miller, W. H.; H. M. Tyus; and C. W. McAda. 1983. Movements, migration and habitat preference of radiotelemetered Colorado squawfish, Green, White, and Yampa Rivers, Colorado and Utah; Colorado River Fishery Project. Salt Lake City, Utah: U. S. Fish and Wildlife Service. 39 pp.

Fisheries biology/Endangered species/Colorado related.

Minckley, W. L.; and G. K. Meffe. 0310. Differential selection by flooding in stream fish communities in the arid American Southwest. Pages 93-105 In: W. J. Matthews and D. C. Heins. *Community and evolutionary ecology of North American stream fishes*. Norman: University of Oklahoma Press; cpp.

Fisheries biology/Hydrology/Freshwater ecology/General research related.

Molles, M. 1980. The impacts of habitat alterations and introduced species on the native fishes of the Upper Colorado River Basin. Pages 163-181 In: W. O. Spofford, A. L. Parker, and A. V. Kneese, editors. Energy development in the Southwest - problems of water, fish and wildlife in the Upper Colorado River Basin; Vol. 2 Resources for the Future. Washington, D.C.  
 Fisheries biology/Stream regulation/Freshwater ecology/Colorado related.

Morris, D. P.; and Lewis Jr., W. M. 1992 Sep 1. Nutrient limitation of bacterioplankton growth in Lake Dillon, Colorado. Limnology and Oceanography. 37(6): 1179.  
 Freshwater ecology/General research related.

Moyle, P. B. 1976. Fish introductions in California: history and impact on native fishes. Biological Conservation. 9: 101-118.  
 Fisheries biology/General research related.

Moyle, P. B.; and R. M. Yoshiyama. 1994. Protection of aquatic biodiversity in California: a five-tiered approach. Fisheries (Bethesda). 19: 6-18.  
 Freshwater ecology/General research related/Other region related/Resource and land management.

Mulholland, P. J. 1992. Regulation of nutrient concentrations in a temperate forest stream: Roles of upland, riparian, and instream processes. Limnology and oceanography. 37(7): 1512.  
 Freshwater ecology/General research related.

Muth, R. T.; and T. P. Nesler. 1993. Associations among flow and temperature regimes and spawning periods and abundance of young of selected fishes, Lower Yampa River, Colorado, 1980-1984.  
 Fisheries biology/Endangered species/Colorado related.

National Park Service, U.S.D.I. Insect list Black Canyon of the Gunnison National Monument. Black Canyon of the Gunnison N.M.: National Park Service.  
 Invertebrates/Gunnison/BLCA file.

Nehring, R. B. 1988. Fish flow investigations: F-51-R, Job no. 1, progress report. Fort Collins, Colorado: Colorado Division of Wildlife, Federal Aid in Fish and Wildlife Restoration.  
 Fisheries biology/Freshwater ecology/Colorado related.

---. 1988. Fisherman use and catch evaluation of the Gunnison River and sport fish population analysis for 1988 from the east portal access area below Crystal Dam to the North Fork confluence. Fort Collins, Colorado: Colorado Division of Wildlife.  
 Fisheries biology/Recreation/Gunnison.

---. 1983. Gunnison River sport fish population evaluation and fisherman use and catch study for the East Portal access area below Crystal Dam to the North Fork confluence. Fort Collins, Colo.: Colorado Division of Wildlife.  
 Fisheries biology/Recreation/Colorado related.

---. 1988. Job 1. Fish flow investigations; Job 2. Wild trout introductions. Fort Collins, Colorado: Colorado Division of Wildlife; F-51.  
 Fisheries biology/Gunnison.

Nehring, R. B. [and others]. 1981. Stream fisheries investigations job progress report. Denver, Colorado: Colorado Division of Wildlife; Project F-51-R. 161 pp.  
 Fisheries biology/Endangered species/Colorado related.

Nehring, R. B. 1988. Stream fisheries investigations: Colorado Division of Wildlife, Federal Aid in Fish and Wildlife Restoration, F-51, final report. Fort Collins, Colorado: Colorado Division of Wildlife. 34 pp. Fisheries biology/Colorado related.

Nehring, R. B.; and D. D. Miller. The influence of spring discharge levels on rainbow and brown trout recruitment and survival, Black Canyon of the Gunnison River, Colorado, as determined by IFIM/PHABSIM models. Proceedings of the Western Association of Fish and Wildlife Agencies and the Western Division of the American Fisheries Society; 1987. ; 67: 388-397. Fisheries biology/Gunnison.

Nehring, R. B.; and R. Anderson. 1985. Stream fisheries investigations, Colorado Division of Wildlife, Federal Aid in Fish and Wildlife Restoration, F-51, job progress report. Fort Collins, Colorado: Colo. Div. of Wildlife. Fisheries biology/Recreation/Colorado related.

Nelson, S. M.; and S. A. Flickinger. 1992 Oct 23. Salinity tolerance of Colorado squawfish, *Ptychocheilus lucius* (Pisces: Cyprinidae). *Hydrobiologia*. 246(2): 165. Endangered species/Fisheries biology/Water quality/Colorado related/General research related.

Nesler, T. P. 1991. Endangered fishes investigations: Federal Aid Project #SE-3 - job progress report. Colorado River Recovery Implementation Program Reports. Fisheries biology/Endangered species/Colorado related.

Nesler, T. P.; and L. Lentsch. Aspinall Unit studies; 1992 annual project report; Colorado River Fishes Recovery Program. 1992. 7 pp. Endangered species/Fisheries biology/Stream regulation/Gunnison.

Nesler, T. P.; R. T. Muth; and A. F. Wasowicz. Evidence for baseline flow spikes as spawning cues for Colorado squawfish in the Yampa River. Colorado American Fisheries Society Symposium; 1988. 5: 68-79. Endangered species/Fisheries biology/Colorado related.

Neuhold, J. M.; with appendix by T. C. Annear. 1981 Apr. An ecological characterization of the Yampa and Green Rivers in Dinosaur National Monument. Logan, Utah: Utah State University. 143 pp. Colorado related/Freshwater ecology.

O'Keefe, J.; and B. Davies. 1991. Conservation and management of the rivers of the Kruger National Park: suggested methods for calculating instream flow needs. *Aquatic Conservation: Marine and Freshwater Ecosystems*. 1: 55-71. Stream regulation/Freshwater ecology/Other region related.

Osmundson, D. B.; and L. R. Kaeding. 1991. Recommendations for flows in the '15-mile reach' during October-June for maintenance and enhancement of endangered fish populations in the Upper Colorado River; final report. Grand Junction, Colorado: Region 6, U. S. Fish and Wildlife Service, U.S.D.I. 81 pp. Endangered species/Fisheries biology/Colorado related/Stream regulation.

---. 1989. Studies of Colorado squawfish and razorback sucker use of the '15-mile reach' of the Upper Colorado River as part of conservation measures for the Green Mountain and Ruedi Reservoir water sales; final report. Grand Junction, Colorado: U. S. Fish and Wildlife Service, U.S.D.I. Endangered species/Fisheries biology/Stream regulation/Water contract/Colorado related.

Paulin, K.; H. Tyus; and C. Williams. 1990. Response of young Colorado squawfish and razorback suckers to water flow and light intensity; unpublished report. Vernal, Utah: U. S. Fish and Wildlife Service. Endangered species/Fisheries biology/Stream regulation/Colorado related.

Payne, J. F. 1978. Aspects of the life histories of selected species of North American crayfishes. *Fisheries*. 3(6): 5-7. Aquatic invertebrates/Freshwater ecology/General research related.

Peckarsky, B. L. 1982. Aquatic insect predator-prey relations. *BioScience*. 32: 261-266. Aquatic invertebrates/Gunnison.

---. 1979. Biological interactions as determinants of distribution of benthic invertebrates within the substrate of stony streams. *Limnology and Oceanography*. 24: 59-68. Aquatic invertebrates/Gunnison.

---. 1983. Biotic interactions or abiotic limitations? A model of lotic community structure. In: T. O. Fontaine III and S. M. Bartell, eds. *Dynamics of Lotic Ecosystems*. Ann Arbor, Michigan: Ann Arbor Science: 303-323. Freshwater ecology/Aquatic invertebrates/Gunnison.

---. 1986. Colonization of natural substrates by stream benthos. *Canadian Journal of Fisheries and Aquatic Science*. 43: 700-709. Aquatic invertebrates/Gunnison.

---. 1985. Do predaceous stoneflies and siltation affect the structure of stream insect communities colonizing enclosures? *Canadian Journal of Zoology*. 63: 1519-1530. Aquatic invertebrates/Gunnison.

---. 1991. Habitat selection by stream-dwelling predatory stoneflies. *Canadian Journal of Fisheries and Aquatic Science*. 48: 1069-1076. Aquatic invertebrates/Gunnison.

---. 1980. Influence of detritus upon colonization of stream invertebrates. *Canadian Journal of Fisheries and Aquatic Sciences*. 37: 957-963. Aquatic invertebrates/Gunnison.

---. 1980. Predator-prey interactions between stoneflies and mayflies: behavioral observations. *Ecology*. 61: 932-943. Aquatic invertebrates/Gunnison.

---. 1984. Predator-prey interactions among aquatic insects. In: V. H. Resh and D. M. Rosenberg, eds. *Ecology of Aquatic Insects*. New York: Praeger: 196-254. Freshwater ecology/Aquatic invertebrates/Gunnison.

---. 1984. The Rocky Mountain Biological Laboratory. *North American Benthological Society, Bulletin*. 1: 26-29. Freshwater ecology/Gunnison.

---. 1984. Sampling the stream benthos. In: J. A. Downing and F. H. Rigler, eds. *A Manual on Methods for Assessing Secondary Productivity in Freshwaters*. London: Blackwell Scientific Publications: 131-160. Freshwater ecology/Aquatic invertebrates/Gunnison.

---. 1987. Succession, scale and hypothesis-testing in streams: a reply to Fisher. *Canadian Journal of Fisheries and Aquatic Science.* 44: 689-691.  
 Freshwater ecology/Aquatic invertebrates/Gunnison.

---. 1984. Use of behavioral experiments to test ecological theory in streams. In: J. R. Barnes and G. W. Minshall, eds. *Stream Ecology: Application and Testing of General Ecological Theory.* New York: Plenum: 79-97.  
 Freshwater ecology/Aquatic invertebrates/Gunnison.

Peckarsky, B. L.; and M. A. Penton. 1990. Effects of enclosures on stream microhabitat and invertebrate community structure. *North American Benthological Society, Journal.* 9: 249-261.  
 Freshwater ecology/Aquatic invertebrates/Gunnison.

Peckarsky, B. L.; and S. I. Dodson. 1980. An experimental analysis of biological factors contributing to stream community structure. *Ecology.* 61: 1283-1290.  
 Freshwater ecology/Aquatic invertebrates/Gunnison.

Pennak, R. W.; and J. V. Ward. 1986. Interstitial faunal communities of the hyporheic and adjacent groundwater biotopes of a Colorado mountain stream. *Arch. Hydrobiol./Suppl.* 74(3): 356- 396.  
 Colorado related/Freshwater ecology/Aquatic invertebrates.

Perry, J. A.; and D. J. Schaeffer. 1987. The longitudinal distribution of riverine benthos: A river dis-continuum? *Hydrobiologia.* 148: 257-268.  
 Freshwater ecology/Aquatic invertebrates/Fisheries biology/ General research related.

Petts, G. E. 1980. Longterm consequences of upstream impoundment. *Environmental Conservation.* 7: 325-332.  
 General research related/Stream regulation/Freshwater ecology.

Pfeifer, F. K.; and B. D. Burdick. 1991. Recovery implementation program for the endangered fish species in the Upper Colorado River Basin FY-1992. Grand Junction, Colorado: U.S. Fish & Wildlife Service. 8 + pp.  
 Fisheries biology/Endangered species/Colorado related.

Power, M. E.; A. Sun; G. Parker; W. E. Dietrich; and J. T. Wootton. 1995. Hydraulic food-chain models. *BioScience.* 45(3): 159-167.  
 Freshwater ecology/General research related.

Prichard, D. 1989. Report on aquatic life and vegetation dependency on instream flow in Dolores River, Colorado. Denver, Colorado: U. S. Bureau of Land Management, Service Center.  
 Colorado related/Freshwater ecology/Stream regulation.

Pucherelli, M. J.; R. C. Clark; and R. D. Williams. 1990. 1989 Upper Basin interagency standardized monitoring program - Green and Colorado Rivers habitat mapping using airborne video. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service.  
 Fisheries biology/Endangered species/Colorado related.

---. 1990. Mapping backwater habitat on the Green River as related to the operation of Flaming Gorge Dam using remote sensing and GIS. Denver, Colorado: United States Bureau of Reclamation Research and Laboratory Services Division report; R- 90-18. 11 pp.  
 Photo documentation/Stream regulation/Geomorphology/Fisheries biology/Colorado related.

Quartarone, F. 1993. Historical accounts of Upper [Colorado] Basin endangered fish. Denver, Colorado: Colorado Division of Wildlife.  
 Endangered species/Fisheries biology/Historical/Colorado related.

Reed, E. B.; and C. Norton. 1963. Survey of aquatic insects and aquatic plants in the Gunnison River, Black Canyon of the Gunnison National Monument. submitted to Black Canyon of the Gunnison N.M.: National Park Service.

Note: From BLCA files (N22).

This study was undertaken to learn something of the aquatic organisms inhabiting the Gunnison River in the vicinity of the National Monument. In a short time the Gunnison River will be impounded by a series of three dams located upstream from the National Monument. In addition to contributing to the knowledge of the present flora and fauna, this study should provide a basis for future studies following impoundment of the river.

Freshwater ecology/Aquatic invertebrates/Riparian vegetation/ Gunnison/BLCA file/Pre-regulation.

Reid, J. W. 1992 Oct 1. *Acanthocyclops pennaki* n. sp. (Copepoda: Cyclopoida) from the hyporheic zone of the South Platte River, Colorado, U. S. A. Transactions of the American Microscopical Society. 111(4): 269. Freshwater ecology/Aquatic invertebrates/Colorado related.

Richardson Jr., J. W. 1962. A stream survey of East Elk Creek, Gunnison River, Colorado. Anthropological Papers. 59: 152-159.

Objectives: (1) To assess the potential value of the stream for production of bottom fauna as a source of food for vertebrate animals, mainly fish. (2) To ascertain what ecological factors might be significant to the bottom invertebrates as a potential source of food for fish populations.

Freshwater ecology/Gunnison/Pre-regulation.

Seethaler, K. H. 1978. Life history and ecology of the Colorado squawfish (*Ptychocheilus lucius*) in the Upper Colorado River Basin [Masters Thesis]. Logan, Utah: Utah State University. 155 pp.

Endangered species/Fisheries biology/Colorado related.

Seethaler, K. H.; C. W. McAda; and R. S. Wydoski. 1979. Endangered and threatened fish in the Yampa and Green Rivers of Dinosaur National Monument. Pages 605-612 In R. M. Linn: editor. Proceedings of the First Conference on Scientific Research in National Parks. National Park Service, Transactions and Proceedings Series Number 5: U.S.D.I.

Endangered species/Fisheries biology/Colorado related.

Sievers, G. D. 1949. The bacteriology and relative hardness of certain waters of the Gunnison watershed. Gunnison, Colorado: Western State College (thesis). 45 leaves.

Freshwater ecology/Water quality/Gunnison.

Sparks, Richard E. 1995. Need for ecosystem management of large rivers and their floodplains. BioScience. 45(3): 168-182.

Riparian ecology/Resource and land management/Freshwater ecology/General research related.

Stalnaker, C. B.; and P. B. Holden. Changes in native fish distribution in the Green River system, Utah-Colorado. Proceedings of the Utah Academy of Science; 1973. 50(1): 25-32.

Colorado related/Fisheries biology/Stream regulation.

Stanford, J. A. 1993. Instream flows to assist the recovery of endangered fishes of the Upper Colorado River Basin: review and synthesis of ecological information, issues, methods and rationale. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service.

Stream regulation/Fisheries biology/Endangered species/Colorado related.

Stanford, J. A.; and J. V. Ward, eds. 1979. The ecology of regulated streams. New York: Plenum Press.

Freshwater ecology/General research related/Riparian ecology/ Stream regulation.

---. 1983. The effects of mainstream dams on physiochemistry of the Gunnison River, Colorado [Chapter 4]. In: Adams, V. D.; and V. A. Lamarra, eds. Aquatic resources management of the Colorado River ecosystem. Ann Arbor, Michigan: Ann Arbor Science: 43-56.  
Stream regulation/Water quality/Freshwater ecology/Gunnison.

---. 1985. The effects of regulation on the limnology of the Gunnison River: a North American case history. A. Lillehammer and S. Saltveit, eds. Regulated Rivers. Oslo, Norway: Universitetsforlaget As.: 467-480.  
Gunnison/Stream regulation/Freshwater ecology.

---. 1986. Fish of the Colorado system. In: Davies, B. R.; and K. F. Walker, eds. The ecology of river systems. Dordrecht, The Netherlands: Dr. W. Junk Publishers: 385-402.  
Fisheries biology/Colorado related.

---. 1988. The hyporheic habitat of river ecosystems. *Nature*. 335(6185): 64-66.  
General research related/Freshwater ecology.

---. 1986. Lotic zoobenthos of the Colorado system. In: Davies B. R.; and K. F. Walker, eds. The ecology of river systems. Dordrecht, The Netherlands: Dr. W. Junk Publishers.  
Aquatic invertebrates/Colorado related.

---. 1992. Management of aquatic resources in large catchments: recognizing interactions between ecosystem connectivity and environmental disturbance. In: Naiman, R. J., ed. *Watershed Management: Balancing Sustainability with Environmental Change*. New York: Springer-Verlag: 000-000.  
General research related/Freshwater ecology.

Stanford, J. A.; and Hauer. 1992 Mar 1. Mitigating the impacts of stream and lake regulation in the Flathead River catchment, Montana, USA: an ecosystem perspective. *Aquatic Conservation: Marine and Freshwater Ecology*. 2(1): 35.  
Freshwater ecology/Stream regulation/Other region related.

Stanford, J. A.; and J. V. Ward. Preliminary interpretations of the distribution of *Hydropsychidae* in a regulated river. In: G.P. Moretti, ed. *Proceedings of the Third International Symposium on Trichoptera, Series Entomologica*. 1981; 20: 323-328.  
General research related/Freshwater ecology/Aquatic invertebrates/Stream regulation/Unknown region.

---. 1986. Reservoirs of the Colorado system. In: Davies, B. R.; and K. F. Walker, eds. The ecology of river systems. Dordrecht, The Netherlands: Dr. W. Junk Publishers.  
Freshwater ecology/Stream regulation/Colorado related.

---. 1989. Serial discontinuities in a Rocky Mountain river. I. Distribution and abundance of *Plecoptera*. In: *Regulated rivers: research & management*. : John Wiley & Sons, Ltd.; Vol. 3: 169- 175.  
Aquatic invertebrates/Gunnison/Stream regulation.

---. 1989. Serial discontinuities in a rocky mountain river II. distribution and abundance of *Trichoptera*. In: *Regulated rivers: research and management*. : John Wiley & Sons, Ltd. 6 pp.  
Aquatic invertebrates/Gunnison/Stream regulation.

Stanford, J. A.; F. R. Hauer; and J. V. Ward. 1988. Serial discontinuity in a large river system. *Verh. Internat. Verein. Limnol.* 23: 1114-1118.  
Unknown region/Freshwater ecology.

Starnes, W. C. 1989. Colorado River Basin *Gila* Taxonomy Project phase I report. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service. Fisheries biology/Endangered species/Colorado related.

Stewart, K. W.; and R. L. Fuller. 1979. Food habits of the stoneflies of Gunnison and Dolores Rivers, Colorado. *Gewasser und Abwasser*. 64: 45-46. Freshwater ecology/Aquatic invertebrates/Gunnison.

Tennant, D. L. 1976. Instream flow regimes for fish, wildlife, recreation, and related environmental resources. In: J. Osborn and C. Allman, eds. Proceeding: Specialty Conference on Instream Flow Needs: American Fisheries Society. ; II: 359-373. Fisheries biology/Recreation/Stream regulation/General research related.

Tesky, R. O.; and T. M. Hinckley. 1977. Impact of water level changes on woody riparian and wetland communities. Volume 1: plant and soil responses to flooding. Office of Biological Sciences: U. S. Dept. of Interior, U.S. Fish and Wildlife Service; FWS/OBS-77/58. Riparian ecology/Stream regulation/Riparian vegetation/Soils/General research related/Freshwater ecology.

Thompson, J. M.; and E. P. Bergersen. 1991 May 1. Role of size, condition, and lipid content in the overwinter survival of age-0 Colorado squawfish. *Transaction of the American Fisheries Society*. 120(3): 346. Endangered species/Fisheries biology/Colorado related.

Tyus, H. M. Distribution, reproduction, and habitat use of the razorback sucker in the Green River, Utah, 1979-1986. *Transactions of the American Fisheries Society*; 1987. 116: 111- 116. Endangered species/Fisheries biology/Colorado related.

---. 1992. Instream flow philosophy for recovering endangered Colorado River fishes. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service. Fisheries biology/Endangered species/Colorado related.

---. 1992 Jan 1. An instream flow philosophy for recovering endangered Colorado River fishes. *Rivers: studies in the science, environmental...* 3(1): 27. Stream regulation/Fisheries biology/Endangered species/Colorado related.

---. 1984. Loss of stream passage as a factor in the decline of the endangered Colorado squawfish. Pages 138-144 In: *Issues and Technology in the Management of Impacted Western Wildlife; Proceedings of a national symposium*. Boulder, Colorado: Thorne Ecological Institute Technical Publication 14. Colorado related/Endangered species/Fisheries biology/Stream regulation.

---. 1991A. Management of Colorado squawfish. Pages 379-402 In: W. L. Minckley and J. E. Deacon, editors. *Battle Against Extinction*. Tucson, Arizona: University of Arizona Press. Endangered species/Fisheries biology/Colorado related.

---. 1901 Mar. Movement and habitat use of young Colorado squawfish in the Green River, Utah. *Journal of Freshwater Ecology*; 6(1): 43-51. Endangered species/Fisheries biology/Colorado related.

Tyus, H. M.; and G. B. Haines. 1991 Jan 1. Distribution, habitat use, and growth of age-0 Colorado squawfish in the Green River Basin, Colorado and Utah. *Transaction of the American Fisheries Society*. 120(1): 79. Endangered species/Fisheries biology/Freshwater ecology/Colorado related.

---. 1990 Dec 1. Fish associations and environmental variables in age-0 Colorado squawfish habitats, Green River, Utah. *Journal of Freshwater Ecology*. 5(4): 427.  
 Endangered species/Fisheries biology/Freshwater ecology/Colorado related.

Tyus, H. M.; and C. A. Karp. 1989. Habitat use and streamflow needs of rare and endangered fishes, Yampa River, Colorado. Vernal, Utah: U. S. Fish and Wildlife Service, U.S.D.I.; FWS Biological Report 89 (14). 27 pp.  
 Endangered species/Fisheries biology/Colorado related.

---. 1991. Habitat use and streamflow needs of rare and endangered fishes, Green River, Utah. Vernal, Utah: U. S. Fish and Wildlife Service, U.S.D.I. 54 pp.  
 Stream regulation/Endangered species/Fisheries biology/Colorado related.

Tyus, H. M.; and C. W. McAda. 1984. Migration, movements and habitat preferences of Colorado squawfish, *Ptychocheilus lucius*, in the Green, White, and Yampa Rivers, Colorado and Utah. *The Southwestern Naturalist*; 29: 289-299.  
 Endangered species/Fisheries biology/Colorado related.

Tyus, H. M.; and E. Wang. 1990 Nov 1. Potamodromy and reproduction of Colorado squawfish in the Green River Basin, Colorado and Utah. *Transaction of the American Fisheries Society*. 119(6): 1035.  
 Endangered species/Fisheries biology/Colorado related/Other region related.

Tyus, H. M.; and C. A. Karp. 1990 Dec 1. Spawning and movement of razorback sucker, *Xyrauchen texanus*, in the Green River Basin of Colorado and Utah. *The Southwestern Naturalist*. 35(4): 427.  
 Endangered species/Fisheries biology/Colorado related.

U. S. Fish and Wildlife Service, U.S.D.I. 1990A. Bonytail chub Recovery Plan. Denver, Colorado: Prepared by Colorado Fishes Recovery Team for U. S. Fish and Wildlife Service. 35 pp.  
 Endangered species/Fisheries biology/Colorado related.

---. 1959. Colorado River Storage Project, Bostwick Park Project, Colorado (BR): Bureau of Sport Fisheries and Wildlife report. Albuquerque, N.M.: U. S. Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, U.S.D.I. 6 leaves.  
 Fisheries biology/Recreation/Colorado related.

---. 1991. Colorado squawfish Recovery Plan. Denver, Colorado: Prepared by Colorado Fishes Recovery Team for U. S. Fish and Wildlife Service. 56 pp.  
 Endangered species/Fisheries biology/Colorado related.

---. 1993. Critical habitat designations proposed for four Colorado River fishes. *Endangered Species Technical Bulletin*. 18(2): 7-11.  
 Endangered species/Fisheries biology/Colorado related.

---. 1992B. Final Biological Opinion for the operation of Flaming Gorge Dam. Denver, Colorado: Region 6, U. S. Fish and Wildlife Service. 44 pp plus appendices.  
 Endangered species/Freshwater ecology/Stream regulation/ Environmental document/Colorado related.

---. 1990B. Humpback chub Recovery Plan. Denver, Colorado: Prepared by Colorado Fishes Recovery Team for U. S. Fish and Wildlife Service. 43 pp.  
 Endangered species/Fisheries biology/Colorado related.

---. 1993 Nov 4. Overview of the proposed critical habitat designation for the four Colorado River endangered fishes, draft [part one of three part series], economic overview. Biologists: H. R. Maddux; W. R. Noonan; and L. A. Fitzpatrick; Economists: D. S. Brookshire; M. McKee; and G. Watts. Salt Lake City, Utah: U. S. Fish and Wildlife, Utah Field Office. 65 pp.  
 Fisheries biology/Endangered species/Economics.

U. S. Fish and Wildlife Service, Recovery Implementation Program. 1987. Recovery Implementation Program for Endangered Fish Species in the Upper Colorado River Basin: Final. Denver, Colorado: U. S. Fish and Wildlife Service.  
 Fisheries biology/Endangered species/Colorado related.

U. S. Fish and Wildlife Service, U.S.D.I. 1992 Aug. Recovery implementation program for endangered fish species in the Upper Colorado River Basin, draft, fiscal year 1993 work plan. Denver, Colo.: Region 6, U. S. Fish and Wildlife Service.  
 endangered species/Fisheries biology/Colorado related.

---. 1957. A report on fish and wildlife resources Curecanti Unit, Colorado River Storage Project, Colorado. Colorado: U. S. Fish and Wildlife Service.  
 This report contains a detailed analysis of the effect of Curecanti unit, Colorado River Storage project, upon fish and wildlife resources in the Gunnison River Valley, Colorado.  
 Wildlife biology/Fisheries biology/Gunnison/Pre-regulation/ Stream regulation.

U. S. Fish and Wildlife Service, Recovery Implementation Program. 1993. Section 7 Consultation, Sufficient Progress, and Historic Projects Agreement and Recovery Action Plan. Colorado River Recovery Implementation Program Reports: U. S. Fish and Wildlife Service.  
 Fisheries biology/Endangered species/Colorado related.

Valdez, R. A. 1991. Characterization of the life history and ecology of the humpback chub in the Grand Canyon. Annual Report to the Bureau of Reclamation. Logan, Utah: Bio/West, Inc.; Report No. TR 250-02. 74 pp.  
 Endangered species/Fisheries biology/Colorado related.

Valdez, R. A.; and M. Hugentobler, Editors. 1993. Characterization of the life history and ecology of the humpback chub (*Gila cypha*) in the Grand Canyon. Annual Report-1992 to Bureau of Reclamation. Logan, Utah: Bio/West, Inc. Report No. TR 250-06. 168 pp plus appendices.  
 Endangered species/Fisheries biology/Colorado related.

Valdez, R. A.; and E. J. Wick. 1983. Natural vs. manmade backwaters as native fish habitat. Pages 519-536 In: V. D. Adams and V. A. Lamarra, Editors. Aquatic Resources Management of the Colorado River Ecosystem. Ann Arbor, Michigan: Ann Arbor Science.      Fisheries biology/Stream regulation/Freshwater ecology/Colorado related.

Valdez, R. A.; and W. J. Masslich. 1989. Winter habitat study of endangered fish, Green River. Wintertime movement and habitat of adult Colorado squawfish and razorback suckers. Salt Lake City, Utah: Bio/West, Inc., prepared for the Bureau of Reclamation; Report No. 136-2. 184 pp.  
 Endangered species/Fisheries biology/Colorado related.

Valdez, R. A.; P. B. Holden; and T. B. Hardy. 1990. Habitat suitability index curves for humpback chub of the Upper Colorado River Basin. Rivers; 1: 31-42.  
 Endangered species/Fisheries biology/Colorado related.

Valdez, R. A.; P. G. Mangan; M. McInery; and R. P. Smith. 1982A. Tributary report: fishery investigations of the Gunnison and Dolores Rivers. Pages 321-362 In: W. H. Miller, J. J. Valentine, D. L. Archer, H. M. Tyus, R. A. Valdez, and L. Kaeding, Editors. Part 2 - Field investigations. Colorado River Fishery Project. Salt Lake City, Utah: U. S. Bureau of Reclamation, U.S.D.I. Fisheries biology/Gunnison.

Valdez, R. A.; W. J. Masslisch; and W. C. Leibfried. 1992. Characterization of the life history and ecology of the humpback chub (*Gila cypha*) in the Grand Canyon. Annual Report to Bureau of Reclamation. Logan, Utah: Bio/West, Inc. Report No. TR 250-04. 222 pp. Endangered species/Fisheries biology/Colorado related.

Valdez, R. A.; W. J. Masslisch; and A. Wasowicz. 1990. Dolores River native fish habitat suitability study: annual summary report. Logan, Utah: Bio/West, Inc. Endangered species/Fisheries biology/Colorado related.

Vanicek, C. C. 1967. Ecological studies of native Green River fishes below Flaming Gorge Dam, 1964-1966 [Ph. D. Dissertation]. Logan, Utah: Utah State University. 124 pp. Fisheries biology/Freshwater ecology/Colorado related.

Vanicek, C. D.; R. H. Kramer; and D. R. Franklin. 1970. Distribution of Green River fishes in Utah and Colorado following closure of Flaming Gorge Dam. The Southwestern Naturalist; 14: 297-315. Fisheries biology/Stream regulation/Colorado related.

Ward, J. V. 1992. An illustrated guide to the mountain stream insects of Colorado. : ? 191 pp. Note: 191 pp. Aquatic invertebrates/Colorado related.

Ward, J. V.; and J. A. Stanford. 1991. Benthic faunal patterns along the longitudinal gradient of a Rocky Mountain river system. International Association for Theoretical and Applied Limnology; 1989; Munich, Germany. Stuttgart, Germany: E. Schweizerbart'sche Verlagsbuchhandlung; 24: 3087-3094. Freshwater ecology/Stream regulation/Aquatic invertebrates/ Gunnison.

---. 1979. Ecological factors controlling stream zoobenthos with emphasis on thermal modification of regulated streams. In: Ward, J. V.; and J. A. Stanford, eds. The Ecology of Regulated Streams. New York: Plenum Publishing: 35-55. Aquatic invertebrates/Unknown region/General research related/ Freshwater ecology/Stream regulation.

---, eds. 1979. The ecology of regulated streams. New York: Plenum Press. 398 pp. Riparian ecology/Freshwater ecology/Stream regulation/General research related.

---. *Ephemeroptera* of the Gunnison River, Colorado, USA. Campbell, I. and P. Suter. Proceedings of the Fifth International Conference on *Ephemeroptera*; 1989. Leiden: E. J. Brill. Aquatic invertebrates/Gunnison.

---. 1990. *Ephemeroptera* of the Gunnison River, Colorado, U.S.A. I. C. Campbell, ed. Mayflies and Stoneflies. : 215-220. Aquatic invertebrates/Gunnison.

---. 1983A. The intermediate disturbance hypothesis. An explanation for biotic diversity patterns in lotic ecosystems. In: Fontaine, T. D.; and S. M. Bartell, eds. Dynamics of Lotic Ecosystems. Ann Arbor, Michigan: Ann Arbor Scientific Publishers, Inc.: 347-356. 494 pp.

Unknown region/General research related/Freshwater ecology/ Aquatic invertebrates.

---. 1989. Riverine ecosystems: the influence of man on catchment dynamics and fish ecology. *Can. Spec. Publ. Fish. Aquat.* 106: 56- 64.  
Fisheries biology/Freshwater ecology/General research related.

---. 1983B. The serial discontinuity concept of lotic ecosystems. In: Fontaine, T. D. III; and S. M. Bartell, eds. *Dynamics of Lotic Ecosystems*. Ann Arbor, Michigan: Ann Arbor Science Publishers: 29-42.  
Unknown region/General research related/Freshwater ecology.

Water Science and Technology Board. 1991. Colorado River ecology and dam management. Washington, D. C.: National Academy Press. 276 pp.  
Reservoir operation and management/Freshwater ecology/Riparian ecology/Stream regulation/Colorado related.

Wick, E. J. 1992. River management and habitat restoration strategy: an issue paper on habitat development. Recovery Program - Endangered Fishes - Upper Colorado River: U. S. Fish and Wildlife Service Technical Paper in prep.  
Freshwater ecology/Resource and land management/Fisheries biology/Colorado related/Endangered species.

Wick, E. J.; D. E. Snyder; D. Langlois; and T. Lytle. Colorado squawfish and humpback chub population and habitat monitoring. Federal Aid to Endangered Wildlife Job Progress Report. SE-3-2. Denver, Colorado: Colorado Division of Wildlife. 56 pp plus appendices.  
Endangered species/Fisheries biology/Colorado related.

Wick, E. J.; D.L. Stoneburner; and J. A. Hawkins. 1983. Observations on the ecology of Colorado squawfish (*Ptychocheilus lucius*) in the Yampa River, Colorado, 1982. Progress Report SE- 3-5. Ft. Collins, Colorado: National Park Service, Water Research Field Support Laboratory Report No. 83-7, Colorado Division of Wildlife. 55 pp.  
Endangered species/Fisheries biology/Colorado related.

Wick, E. J.; J. A. Hawkins; and C. A. Carlson. 1985. Colorado sqawfish population and habitat monitoring 1983-1984. Final Report SE-3-7. Ft. Collins, Colorado: Colorado Division of Wildlife and Colorado State University, Larval Fish Laboratory. 48 pp.  
Endangered species/Fisheries biology/Colorado related.

---. 1986. Colorado sqawfish population and habitat monitoring 1985. Final Report SE-3-8. Ft. Collins, Colorado: Colorado Division of Wildlife and Colorado State University, Larval Fish Laboratory. 80 pp.  
Endangered species/Fisheries biology/Colorado related.

Wick, E. J.; J. A. Hawkins; and T. P. Nesler. 1991 Jun 1. Occurrence of two endangered fishes in the Little Snake River, Colorado. *The Southwestern Naturalist*. 36(2): 251.  
Fisheries biology/Endangered species/Colorado related.

Wick, E. J.; T. A. Lytle; and C. M. Haynes. 1981. Colorado squawfish and humpback chub population and habitat monitoring, 1979-1980. Progress Report, Endangered Wildlife Investigations. SE-3-3. Denver, Colorado: Colorado Division of Wildlife. 156 pp.  
Endangered species/Fisheries biology/Colorado related.

Willey, R. B.; and R. L. Willey. 1967. Barriers to gene flow in natural populations of grasshoppers I. The Black Canyon of Gunnison River and *Arphia conspersa*. *Psyche*. 74: 42-57.  
 The oedipodine grasshopper, *Arphia conspersa*, is polymorphic for wing color in Colorado. This feature may prove useful as a marker for tracing historical patterns of gene flow between populations.  
 Invertebrates/Gunnison.

Wiltzius, W. J. 1978. Some factors historically affecting the distribution and abundance of fishes in the Gunnison River: final report for fishery investigations of the lower Gunnison River drainage (administered by U.S. Bureau of Reclamation and Colorado Department of Natural Resources, Division of Wildlife). Fort Collins, Colorado: Colorado Division of Wildlife. 215 leaves.  
 Fisheries biology/Gunnison/BLCA file.

Woodling, J. 1985. Colorado's little fish: a guide to the minnows and other lesser known fishes in the state of Colorado. Denver, Colorado: Colorado Division of Wildlife, State Dept. of Natural Resources.  
 Colorado related/Fisheries biology.

Wullschleger, J. G. 1990. Initial impacts of an impoundment on downstream benthic invertebrate fauna.  
 Aquatic invertebrates/Stream regulation/General research related.

Wydoski, R. S.; K. Gilbert; K. Seethaler; C. W. McAda; J. A. Wydoski. 1980. Annotated bibliography for aquatic resource management of the Upper Colorado River ecosystem. Resource Publication 135. Washington, D. C. (U.S.G.P.O.): U. S. Fish and Wildlife Service, U.S.D.I. 186 pp.  
 Freshwater ecology/Colorado related.

Young, C., ed. 1992 Sep. Gunnison flows boosted for native fish species. Recovery Program for the Endangered Fishes of the Upper Colorado, Newsletter (multiagency program). Colorado Division of Wildlife, 6060 Broadway, Denver, Co. 80216.  
 Endangered species/Fisheries biology/Gunnison.

## GEOLOGY/MAPPING/PHOTO DOCUMENTATION/SOILS

Armbrustmacher, T. J.; et al. 1989. Mineral resources of the Gunnison Gorge Wilderness Study Area, Montrose and Delta counties, Colorado. Washington, D. C.: U. S. Dept. of the Interior, U. S. Geological Survey. 14 pp. For sale by the Books and Open-File Reports Section, U. S. Geological Survey, Federal Center. Gunnison/Geology.

Atwood, W. W.; and K. F. Mather. 1915. The grand canyon of the Gunnison River (abstract). Association of American Geographers. 5: 138-139.  
 Geology/Gunnison/Pre-regulation.

Black Canyon of the Gunnison: Black Canyon of the Gunnison National Monument, Colorado. Washington, D. C.: National Park Service, U. S. Dept. of the Interior; 1984. Map; 1:44,000.  
 Mapping/Gunnison/NPS document.

Black Canyon of the Gunnison: Black Canyon of the Gunnison National Monument, Colorado. Wash., D. C.: National Park Service, U.S.D.I.; 1984. Map; 29 x 42 cm. on sheet 40 x 42 cm. folded to 10 x 21 cm., relief shown by shading and spot heights; 1:44,000.  
 Mapping/Gunnison/NPS document.

Branson, E. B. 1925. Course of the Gunnison River in Colorado. Geological Survey of America Bulletin; 36(1): 139.  
Pre-regulation/Gunnison/Geomorphology/Geology.

Brauch, Earl F. 1976. Mineral reconnaissance of the Black Canyon of the Gunnison River vicinity, Delta and Montrose Counties, Colorado. Denver, Colorado: U.S. Bureau of Mines (unpublished).  
Geology/Gunnison.

Colorado Agricultural Experiment Station. 1971. List and location of snow courses and soil moisture stations. Fort Collins, Colorado. 16 pp.  
Soils/Hydrology/General research related.

Dolson, J. 1982. The Black Canyon of the Gunnison, a story in stone: the natural and human history of Black Canyon of the Gunnison National Monument. Boulder, Colorado: Pruett Publishing Co. 53 pp.  
Gunnison/Historical/Cultural resources/Geology.

Eckhardt, D. W.; and D. W. Litke. 1988. Estimation of reservoir surface areas using satellite imagery, Upper Gunnison River Basin, Colorado.  
Photo documentation/Reservoir operation and management/Gunnison.

Fox, C. J.; and J. Y. Nishimura. 1965. Soil management report: Taylor River area, Gunnison National Forest. Denver, Colorado: U. S. Forest Service, Rocky Mountain Region, Division of Multiple Use, Soils and Watershed Management. 87 leaves.  
Soils/Resource and land management/Gunnison.

Fox (F. M.) & Associates. 1974. Roaring Fork and Crystal Valleys: an environmental and engineering geology study --Eagle, Garfield, Gunnison and Pitkin counties, Colorado. Denver, Colorado: Colorado Geological Survey, Dept. of Natural Resources. Prepared for the Colorado Geological Survey and the Colorado Division of Planning.  
/Geology/Colorado related.

Geologic map of the Black Canyon of the Gunnison and vicinity, western Colorado [U.S. Geological Survey Miscellaneous Geologic Investigations Map I-584]. Hansen, W. R. : U.S. Geological Survey; 1971. ; 1:24,000.  
Geology/Mapping/Gunnison.

Goettlicher, W. P.; and M. J. Pucherelli. 1992. Mapping instream habitat on the San Juan River as related to the Animas-La Plata Project using airborne videography; draft. Denver, Colorado: Applied Sciences Branch, Research and Laboratory Services Branch, Bureau of Reclamation, U.S.D.I. 41 pp.  
Mapping/Stream regulation/Colorado related.

Gunnison Basin and American Flat/Silverton: wilderness study areas. U.S.D.I., Bureau of Land Management. Gunnison, Colorado: Bureau of Reclamation; 1986. ; 122 x 82 cm., on sheet 67 x 108 cm.; 1:50,000.  
/Mapping/Gunnison.

Gunnison National Forest, Colorado. Burrus, R. F.; and F. E. Washburn. Denver, Colorado: U. S. Forest Service, regional office; compiled from U.S.F.S. aerial surveys, B.L.M., U.S.G.S. and other surveys; 1955.  
Mapping/Recreation/Gunnison.

Gunnison National Forest, Colorado. ---. Denver, Colorado: U. S. Forest Service, regional office; compiled from U.S.F.S. aerial surveys, B.L.M., U.S.G.S. and other surveys; 1959.  
Mapping/Recreation/Gunnison.

Gunnison National Forest, Colorado. U. S. Forest Service, Rocky Mountain Region. Denver, Colorado: U. S. Forest Service; compiled and drawn at regional office, Denver, Colorado; 1965. 74 x 60 cm. fold. to 15 x 21 cm.; 1:250,000.  
Mapping/Recreation/Gunnison.

Hansen, W. R. 1987. The Black Canyon of the Gunnison in depth. Tucson, Arizona, USA: Southwest Parks and Monuments Association (Also U. S. Geological Survey Bulletin 1191). 58 pp.  
Geology/Geomorphology/Gunnison/Historical.

---. 1987. The Black Canyon of the Gunnison, Colorado. In: Beus, S. S., ed. Centennial field guide - Rocky Mountain section. Geological Society of America; 6: 321-324.  
Gunnison/Geology.

---. 1963. Curecanti pluton, an unusual intrusive body in the Black Canyon of the Gunnison National Monument, Colorado. U.S. Geological Survey Bulletin. 1181-D: D1-D15.  
Geology/Gunnison.

---. Geologic and physiographic highlights of the Gunnison River and vicinity, Colorado. In: New Mexico Geological Society Guidebook, pp. 145-154, 32nd Field Conference, Western Slope, Colorado; 1981.  
Geology/Gunnison.

---. 1981. Geologic and physiographic highlights of the Black Canyon of the Gunnison River and vicinity, Colorado. submitted to Black Canyon of the Gunnison N.M.: National Park Service.

The Black Canyon of the Gunnison straddles the boundary between two physiographic provinces, the Southern Rocky Mountains to the East and the Colorado Plateau to the west. Inasmuch as the boundary there is ill defined, the area shares characteristics of both provinces - sharp ridges, broad mesas, precipitous canyons, complex geology, and vegetational communities that range from desert shrub to boreal forest.

Geology/Gunnison.

Hansen, W. R.; and Z. E. Peterman. 1968. Basement-rock geochronology of the Black Canyon of the Gunnison, Colorado. U.S.G.S. professional paper: U.S. Geological Survey; 600-C. C80- C90.  
Geology/Gunnison.

Houk, Rose. 1991. Black Canyon of the Gunnison. Tucson, Arizona: Southwest Parks and Monuments Association. 14 pp.  
Gunnison/Cultural resources/Historical/Geology.

Hunter, J. F. 1925. Pre-Cambrian rocks of Gunnison river, Colorado. Washington, D. C.: U. S. Government Printing Office. 94 pp.  
Geology/Gunnison.

Hunter, W. R. 1981. Soil survey of Paonia area, Colorado: parts of Delta, Gunnison, and Montrose Counties. Washington, D. C.: U. S. Dept. of Agriculture, Soil Conservation Service. 184 pp.  
Soils/Gunnison/Colorado related.

Hunter, W. R.; and C. F. Spears. 1975. Soil survey of Gunnison Area, Colorado, parts of Gunnison, Hinsdale, and Saguache Counties. Washington, D. C.: U. S. Govt. Print Off. U. S. Department of Agriculture, Soil Conservation Service, in cooperation with Colorado Agricultural Experiment Station. 85 pp.  
Soils/Gunnison.

Josberger, E. G.; and E. Beauvillain. 1989. Snow cover of the Upper Colorado River Basin from satellite passive Microwave and visual imagery. *Nordic hydrology*. 20(2): 73.  
Hydrology/Photo documentation/Colorado related.

Madole, R. F. 1987. Geology of archeological sites in Middle Cottonwood Creek Valley and Taylor Park, Chaffee and Gunnison counties, Colorado. Denver, Colorado (?): U. S. Dept. of the Interior, U. S. Geological Survey. Books and Open-File Reports Section, distributor.  
Cultural resources/Geology/Gunnison/Colorado related.

McConnell, I. W. 1904. Topographic work in the grand canyon of the Gunnison. *Water Supply Paper*: U.S. Geological Survey; 95. 162-167.  
Gunnison/Mapping/Pre-regulation.

Olander, H. C.; N. B. Lamm; and B. A. Florquist (Prepared for the Colorado Geological Survey and the Colorado Division of Planning by F. M. Fox & Associates). 1974. Roaring Fork and Crystal Valleys: an environmental and engineering geology study: Eagle, Garfield, Gunnison, and Pitkin Counties. Denver, Colorado: Colorado Geological Survey, Dept. of Natural Resources. 64 pp.  
/Geology/Gunnison/Colorado related.

Olson, J. C. 1988. Geology and uranium deposits of the Cochetopa and Marshall Pass districts, Saguache and Gunnison counties, Colorado. Reston, Virginia (?): U. S. Dept. of the Interior, U. S. Geological Survey. For sale by the Books and Open-File Reports Section. 44 pp.  
Geology/Colorado related.

Olson, J. C.; D. C. Hedlund; and W. R. Hansen. 1968. Tertiary volcanic stratigraphy in the Powderhorn-Black Canyon region, Gunnison and Montrose Counties, Colorado. U.S. Geological Survey Bulletin No. 1251-C.  
Geology/Gunnison.

Parker, Troy S. 1993. South Rim Driving Tour Guide. Tucson, Arizona: Southwest Parks and Monuments Association. 15 pp.  
Geology/Historical/Cultural resources.

Prather, T. 1982. Geology of the Gunnison country. 1st ed. Gunnison, Colorado: Western State College Foundation. 149 pp.  
Geology/Gunnison.

Pucherelli, M. J.; R. C. Clark; and R. D. Williams. 1990. Mapping backwater habitat on the Green River as related to the operation of Flaming Gorge Dam using remote sensing and GIS. Denver, Colorado: United States Bureau of Reclamation Research and Laboratory Services Division report; R-90-18. 11 pp.  
Photo documentation/Stream regulation/Geomorphology/Fisheries biology/Colorado related.

Sediment Yield Map of Colorado. Prepared by the Colorado Land Use Commission: U. S. Soil Conservation Service, U.S.D.A.; 1974.  
Fluvial geomorphology/Mapping/Colorado related.

Soil Conservation Service, U.S.D.A. 1982. Lower Gunnison Basin Unit, Montrose and Delta Counties, Colorado and Uintah Basin Unit, Duchesne, Wasatch and Uintah Counties, Utah. U. S. Dept. of Agriculture: Soil Conservation Service. 148 pp.  
Soils/Gunnison.

Tesky, R. O.; and T. M. Hinckley. 1977. Impact of water level changes on woody riparian and wetland communities. Volume 1: plant and soil responses to flooding. Office of Biological Sciences: U. S. Dept.

of Interior, U.S. Fish and Wildlife Service; FWS/OBS-77/ 58.

Riparian ecology/Stream regulation/Riparian vegetation/Soils/General research related/Freshwater ecology.

U. S. Geological Survey, U.S.D.I. 1993. Aerial Photography Summary Record System (APSRS) microfiche file (aerial photography data base). National Cartographic Information Center (NCIC): U. S. Geological Survey.

RMRO file/Photo documentation/General research related.

---. 1989. Analytical results and sample locality map of stream- sediment, heavy-mineral-concentrate, and rock samples from the Gunnison gorge Wilderness Study Area (CO-030-388), Delta and Montrose Counties. Denver, Colorado: U. S. Geological Survey; 89- 439. (U. S. Geological Survey open-file report). Geology/Geomorphology/Gunnison/Colorado related.

---. 1993. National Aerial Photography Program (NAPP) (published indexes, base maps and microfiche of available aerial photography). Collection of aerial photography of the 48 conterminous States every 5 years. Earth Science Information Center (ESIC), Sioux Falls, S.D.: U. S. Geological Survey. Photo documentation/General research related.

Verdin, J. P.; L. Hall; J. Halls; and P. Davidson. Application of remote sensing and GIS to estimate irrigation water use in the Upper Gunnison River Basin in Colorado. 10 pp. Water supply/Photo documentation/Gunnison.

Vigyan, Inc., contractor. 1992. Manual of federal geographic products. Prepared under E.P.A. contract no. 68-W90065 in Falls Church, Va. for: U. S. Environmental Protection Agency. Photo documentation/Mapping/General research related.

Warner, M. T.; and D. B. Walker. 1972. Through the Black Canyon. Ann Arbor, Michigan, USA: Braun-Brumfield. Photo documentation/Gunnison.

Whittig, L. D.; et al. 1985. Delineation and correlation of salinity to landforms and geologic formations, Upper Colorado River Basin. Davis, California: University of California, Davis. Geology/Water quality/Colorado related.

## HYDROPOWER

Bureau of Reclamation, U.S.D.I. 1975. Blue Mesa Dam and Powerplant. Denver, Colorado: U. S. Bureau of Reclamation. 426 pp.

Hydropower/Reservoir operation and management/Gunnison.

---. 1971. Crystal dam, reservoir, and power plant, Curecanti unit, Colorado River storage project (final environmental impact statement). Upper Colorado Region: Bureau of Reclamation. 53 pp. Hydropower/Environmental document/Stream regulation/Gunnison.

---. 1971. Crystal dam, reservoir, and power plant, Curecanti unit, Colorado River storage project (draft environmental impact statement). Upper Colorado Region: Bureau of Reclamation. 32 pp. Hydropower/Environmental document/Hydropower/Stream regulation/ Gunnison.

- . 1973. Crystal dam, reservoir, and power plant, Curecanti unit, Colorado River Storage Project, Colorado. Supplement to final environmental impact statement. Upper Colorado Region: Bureau of Reclamation. 25 pp.  
Hydropower/Environmental document/Stream regulation/Gunnison.
- . 1988. Draft environmental assessment Uncompahgre Valley hydropower project. Upper Colorado Region: Bureau of Reclamation. Hydropower/Stream regulation/Environmental document/Gunnison.
- . 1989. Draft environmental impact statement, AB Lateral Hydropower Facility, Uncompahgre Valley Hydropower Project. Upper Colorado Region, Bureau of Rec.: In cooperation with the National Park Service and Bureau of Land Management. 232 pp.  
Hydropower/Environmental document/Stream regulation/Gunnison.
- . 1959 Feb. Economic justification report on Curecanti unit, Colorado River Storage Project, Colorado. Regional Office, Region 4: Bureau of Reclamation. 68 pp.  
Hydropower/Economics/Gunnison.
- . 1990. Final environmental impact statement: AB Lateral hydropower facility, Uncompahgre Valley Reclamation Project, Montrose and Delta Counties, Colorado, Vols. I and II. Upper Colorado Region: Bureau of Reclamation. 532 pp.  
Hydropower/Environmental document/Stream regulation/Gunnison.
- . 1989. Preliminary draft environmental impact statement, AB Lateral Hydropower Facility environmental report. Upper Colorado Region: Bureau of Rec. 166 pp.  
Hydropower/Environmental document/Stream regulation/Gunnison.

Foote, W. E., ed. 1965. A technical presentation of Morrow Point Dam and powerplant foundation investigation: Colorado River Storage Project, Colorado. Denver, Colorado: Dept. of the Interior. 190 pp.  
Hydropower/Reservoir operation and management/Gunnison/Colorado related.

Holden, P. B.; C. Richards; L. W. Crist; and J. R. Campbell. 1981. Aquatic biology studies for proposed Colorado-Ute Electric Association power plant near Grand Junction, Colorado. Submitted to Burns and McDonnell Planning and Environmental Analysis Division: Kansas City, MO; PR 56-1. 66 pp.  
Pre-regulation/Freshwater ecology/Fisheries biology/Aquatic invertebrates/Colorado related/Hydropower.

1992 Jan. Hydropower project threatens Black Canyon. National Parks: 1 p.  
Hydropower/Stream regulation/Gunnison.

## LEGISLATION (resource protection, project authorizations, decrees, operations)

Bureau of Reclamation, U. S. D. I. 1978. Updating the Hoover Dam documents (parts I and II). M. N. Nathanson, compil. Denver, Colorado: U. S. Government Printing Office.  
Colorado related/Legislation/Water contract.

Colorado Division of Water Resources, Office of the State Engineer. Water rights tabulation. Published biennially. Denver, Colorado: State of Colorado, Office of the State Engineer.  
A compilation, by statute, of all water rights decrees.  
Colorado related/Legislation/Water rights.

Colorado Water Conservation Board. Upper Colorado River Storage Project congressional record (annual compilation). Denver, Colorado: Colorado Water Conservation Board.

U. S. Congressional Record excerpts pertaining to the Upper Colorado River Storage Project. Colorado related/Legislation.

National Park Service, U.S.D.I. 1982. [Letter to Office of Legislation, NPS Washington Office, from Rocky Mountain Regional Office]. Wash., D.C.; 1982.

Legislative support data package for proposed boundary adjustment at Black Canyon of the Gunnison National Monument, letter and attachments.

Legislation/Gunnison/NPS document.

---. Black Canyon of the Gunnison National Monument legislative history: established by Presidential Proclamation 2033, March 2, 1933; added lands by Presidential Proclamation 2286, May 16, 1938, and by Presidential Proclamation 2372, Oct. 28, 1939; exchange of lands by P. L. 85-72 Stat 102, May 1, 1958, and by Presidential Proclamation 3344, April 8, 1960; designation of Wilderness, P. L. 94-567; boundary establishment by P. L. 98-357. Denver, Colo.: Rocky Mountain Regional Office, NPS.

Legislation/Gunnison.

---. 1965 Feb. Curecanti National Recreation Area administrative agreement: Memorandum of Agreement between Bureau of Reclamation and National Park Service relating to the development and administration of recreation facilities on the Curecanti Unit, Colorado River Storage Project. Denver, Colo.: Rocky Mountain Regional Office, NPS.

Legislation/Gunnison.

---. 1991. The following authorities are listed by the National Park Service Natural Resources Management Guidelines (NPS-77, 1991) as the primary federal laws governing aquatic resources management: the Clean Water Act, the National Environmental Policy Act, the Rivers and Harbors Act, the Endangered Species Act, the Wilderness Act, the Wild and Scenic Rivers Act, the Coastal Zone Management Act, and the Fish and Wildlife Coordination Act. Management of aquatic resources is further addressed in various provisions of the Estuary Protection Act, the Federal Power Act, the Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, the Food Security of 1985, and the Coastal Barrier Resources Act. Executive orders pertaining to the management of aquatic resources on federal lands include Executive Order 11988 (Floodplain Management), Executive Order 11990 (Protection of Wetlands), and Executive Order 12088 (Pollution Control Standards). Washington, D. C.: National Park Service.

Legislation/Colorado related.

U. S. House of Representatives, Committee on Interior and Insular Affairs, Subcommittee on National Parks and Public Lands. 1993. Black Canyon National Conservation Act of 1991: hearing before the Subcommittee on National Park and Public Lands of the committee on Interior and Insular Affairs, House of Representatives, One Hundred Second Congress, second session on H.R. 1321...

This Act was not passed in 1993.

Legislation/Gunnison.

U. S. House of Representatives, Committee on Interior and Insular Affairs. 1984. Establishing a boundary for the Black Canyon of the Gunnison National Monument, and for other purposes. Washington, D. C.: U. S. Government Printing Office; P. L. 98- 608. 5 pp.

Legislation/Gunnison.

U. S. Senate, Committee on Energy and Natural Resources. 1984. Establishing a boundary for the Black Canyon of the Gunnison National Monument, Colorado. Washington, D. C.: U. S. Government Printing Office; P. L. 98-549. 7 pp.

Legislation/Gunnison.

United States Congress. 1906. The Antiquities Act of 1906 (P. L. Chapter 3060, 34 Stat. 225). U. S. Congress: Washington, D. C.  
Legislation/Colorado related.

---. 1973. A bill to amend the Wild and Scenic Rivers Act by designating segments of certain rivers in the State of Colorado for study as potential components of the National Wild and Scenic Rivers System. Wash., D.C.: U. S. Congress. 3 pp.  
Legislation/Gunnison.

---. 1921 Aug. The Colorado River Compact. U. S. Congress: Washington, D. C.  
Legislation//Colorado related.

---. 1956 Apr. The Colorado River Storage Project (P. L. 84-485). U. S. Congress: Washington, D. C.  
Amended by P. L. 94-579, October, 1976.  
Legislation//Colorado related.

---. 1973 Dec. Endangered Species Act (P. L. 93-205, 87 Stat. 884, as amended). U. S. Congress: Washington, D. C.  
Legislation//Colorado related.

---. 1920 Jun. Federal Water Power Act (P. L. 66-280). U. S. Congress: Washington, D. C.  
Legislation//Colorado related.

---. 1972. Federal Water Pollution Control Act (The Clean Water Act of 1972) (P. L. 92-500, 33 U.S.C. 9) (and 1987 Federal Water Quality Act). U. S. Congress: Washington, D. C.  
Legislation/Colorado related.

---. 1976. Federal Land Policy and Management Act (P. L. 99-198, 43 U.S.C. 1711-1712). U. S. Congress: Washington, D. C.  
This act constitutes the organic legislation for the Bureau of Land Management (BLM).  
Legislation/Colorado related.

---. 1970 Aug 18. General Authorities Act (P. L. 94-458, as amended). U. S. Congress: Washington, D. C.  
An Act providing for improvement in the administration of the National Park System by the Secretary of the Interior and clarifying authorities applicable to the National Park System, and for other purposes. (90 Stat. 1939) (P. L. 94-458).  
Legislation//Colorado related.

---. 1979. Gunnison River, Colorado, wild and scenic river proposals: message from the president of the United States transmitting a report recommending the designation of a segment of the Gunnison River, Colorado as a component of the national wild and scenic rivers system, pursuant to section 4(a) of the wild and scenic rivers act, as amended. Wash., D. C.: U.S.G.P.O. 176 pp.  
(P. L. 93-621).  
Legislation/Gunnison.

---. 1916 Aug 25. The National Park Service Organic Act (P. L. 64-235, as amended). U. S. Congress: Washington, D. C.  
Through this act, Congress established the National Park Service and stated the NPS mandate.  
Legislation/Colorado related.

- . 1970 Jan. National Environmental Policy Act of 1969 (P. L. 91-190, 83 Stat. 852, as amended). U. S. Congress: Washington, D. C.  
Legislation//Colorado related.
- . 1976. National Forest Management Act (amending the Forest and Rangeland Renewable Resources Act of 1974). U. S. Congress: Washington, D. C.  
Legislation//Colorado related.
- . 1897. Organic Administration Act (established the purposes of national forests). U. S. Congress: Washington, D. C.  
Legislation//Colorado related.
- . 1978. Public Rangelands Improvement Act (43 U.S.C. 1901). U. S. Congress: Washington, D. C.  
Legislation//Colorado related.
- . 1902 Jun. The Reclamation Act. U. S. Congress: Washington, D. C.  
Legislation//Colorado related.
- . 1978. Redwood National Park Act (P. L. 95-250, 92 Stat. 163, as amended). U. S. Congress: Wash., D. C.  
This Act amended NPS authorities legislation to direct that within the National Park System, "authorization of activities shall be construed and the protection, management, administration...shall be conducted in light of the high public value and integrity of the National Park System and shall not be excersized in derogation of the values and purposes for which these various areas have been established..." With this additional amendment to NPS law, the NPS is mandated to afford the highest standard of protection and care to park resources; no decision can compromise these resource values, except where specifically authorized by law.  
Legislation/Colorado related.

United States Congress (84th). 1955. U. S. House of Representatives report on the Committee on Interior and Insular Affairs hearings to accompany proposed legislation to authorize: the Secretary of Interior to construct, operate, and maintain the Colorado River Storage Project and participating projects, and for other purposes (parts I and II). Washington, D. C.: U. S. Government. Printing Office; Serial No. 4.  
Colorado related/Legislation

United States Congress. 1949 Apr. The Upper Colorado River Basin Compact (P. L. 81-37). U. S. Congress: Washington, D. C.  
Legislation//Colorado related.

---. 1968 Oct. The Wild and Scenic Rivers Act (P. L. 90-542). U. S. Congress: Washington, D. C.  
Legislation//Colorado related.

---. 1964 Sep. The Wilderness Act (P. L. 88-577, 78 Stat. 890). U. S. Congress: Washington, D. C.  
Legislation//Colorado related.

Upper Colorado River Commission. 1983. Selected legal references index, volumes I through VII. Salt Lake City, Utah: U. Colo. R. Commission.  
Colorado related//Legislation/CSWCB file.

## PRE-REGULATION

Argyle, D. W.; Edmunds, G. F. 1962. Mayflies (*Ephemeroptera*) of the Curecanti Reservoir Basins: Gunnison River, Colorado. Anthropological Papers (Curecanti N.R.A. files). 59: 179-189.

The purpose of the study was to record the fauna and flora of the area. This was necessary because of the future inundation of the area by the proposed construction of the three dams of the Curecanti Project, Cyrstal, Morrow Point, and Blue Mesa dams. This flooding will destroy the habitats of many of the aquatic organisms present in the area. It is also possible that certain species of the limited distribution may be completely eliminated. Mayflies appear to be extremely susceptible to such changes in their environment.

Freshwater ecology/Invertebrates/Pre-regulation/CURE file/ Gunnison.

Atwood, W. W.; and K. F. Mather. 1915. The grand canyon of the Gunnison River (abstract). Association of American Geographers. 5: 138-139.

Geology/Gunnison/Pre-regulation.

Banks, J. L. 1964. Fish species distribution in Dinosaur National Monument during 1961 and 1962 [M. S. Thesis]. Ft. Collins, Colorado: Colorado State University. 96 pp.  
Fisheries biology/Pre-regulation/Colorado related.

Beidleman, R. G. 1963. The Black Canyon of the Gunnison National Monument. Colorado Magazine: The State Historical Society of Colorado. 40(3): 161-178.  
Historical/Gunnison/Pre-regulation.

---. 1961. Checklist of Black Canyon National Monument birds: May-September. On file: Black Canyon of the Gunnison N.M., National Park Service.  
Wildlife biology/Pre-regulation/BLCA file/Gunnison.

---. 1959. The Gunnison River diversion project. Colorado Magazine: The State Historical Society of Colorado. 36(3): 187- 201 and 266-285.  
Historical/Stream regulation/Gunnison/Pre-regulation.

Bifoss, C. G. 1927. A survey of the fresh-water molluscs and their trematode parasites in the lower Gunnison area. Gunnison, Colorado: Western State College (thesis). 47 leaves.  
Pre-regulation/Aquatic invertebrates/Gunnison.

Bosley, C. E. 1960. Pre-impoundment study of the Flaming Gorge Reservoir. Wyoming Game and Fish Commission: Technical Report 9. 1-81.  
Fisheries biology/Pre-regulation/Colorado related.

Branson, E. B. 1925. Course of the Gunnison River in Colorado. Geological Survey of America Bulletin; 36(1): 139.  
Pre-regulation/Gunnison/Geomorphology/Geology.

Bruce, C. A. 1933. History of federal reclamation and its accomplishments on the Uncompahgre Project, Colorado. Gunnison, Colorado: Western State College (thesis).  
Reclamation law/Pre-regulation/Historical/Gunnison.

Chamberlain, T. K. 1946. Fishes, particularly the suckers, Catostomidae, of the Colorado River Drainage and of the Arkansas River Drainage, in relation to the Gunnison-Arkansas transmountain diversion. College Station, Texas: U. S. Fish and Wildlife Service, U.S.D.I.

Fisheries biology/Colorado related/Pre-regulation.

Cline, P. 1936. A brief history of the Black Canyon of the Gunnison National Monument. Archeologist's Office: U.S. National Park Service. 26 pp.  
Gunnison/NPS document/Cultural resources/Pre-regulation.

Colorado Public Health Service. 1962. Salinity investigation of Grand Valley and Gunnison River, 1962 report on Colorado River Basin Water Quality Control Project. Denver, Colorado: Division of Water Supply and Pollution Control. 41 pp.  
Water quality/Gunnison/Colorado related/Pre-regulation.

Colorado Water Conservation Board. 1952. Report of Policy and Review Committee, Gunnison River Storage, to the Colorado Water Conservation Board. Denver, Colorado: Policy and Review Committee, Gunnison River Storage.  
Water supply/Reclamation law/Pre-regulation/Gunnison.

Creer, L. H.; et al. 1853. The explorations of Gunnison and Beckwith in Colorado and Utah. Colorado Magazine: The State Historical Society of Colorado.  
Pre-regulation/Gunnison/Historical.

Economic Research Service, U.S.D.A. 1962. Water and related land resources, Gunnison River Basin, Colorado: a report based on a cooperative study by Colorado Water Conservation Board and United States Department of Agriculture. Salt Lake City, Utah: prepared by Economic Research Service, U. S. Forest Service, Soil Conservation Service. 103 pp.  
Pre-regulation/Water supply/Economics/Gunnison.

Ellis, M. M. 1914. Fishes of Colorado. Boulder, Colorado: University of Colorado Studies; Vol 11(1). 136 pp.  
Fisheries biology/Colorado related/Pre-regulation.

Enders, R. K. 1960. Birds seen at Black Canyon. Black Canyon of the Gunnison N.M.: National Park Service.  
Wildlife biology/Gunnison/BLCA file/Pre-regulation.

Fellows, A. L. 1903 Nov. The Gunnison Tunnel. Forestry and Irrigation. 9.  
Historical/Pre-regulation/Water supply/Gunnison.

Grater, R. K. 1937. Preliminary survey on the status of bighorn at the Black Canyon of the Gunnison National Monument. Black Canyon of the Gunnison N.M.: National Park Service. 19 pp.  
June 27, 1937 a survey commenced on the south rim of the Black Canyon. The area was worked from west to east, several trips being made into the Canyon to study the areas above the river. On July 15, the survey was completed and the data was recorded.  
Wildlife biology/BLCA file/Gunnison/Pre-regulation.

Hardinger, H. W. 1900. Report on the Crystal River District of Gunnison County, Colorado. Denver, Colorado.  
17 leaves.  
Resource and land management/Pre-regulation/Gunnison.

Herron, W. H. 1917. Profile surveys in the Colorado River basin in Wyoming, Utah, Colorado, and New Mexico. U.S. Geological Survey Water-Supply Paper 396: U.S.G.S. 6 pp. plus 43 plates.  
Hydrology/Pre-regulation/Colorado related.

Holden, P. B.; C. Richards; L. W. Crist; and J. R. Campbell. 1981. Aquatic biology studies for proposed Colorado-Ute Electric Association power plant near Grand Junction, Colorado. Submitted to Burns and

McDonnell Planning and Environmental Analysis Division: Kansas City, MO; PR 56-1. 66 pp.  
Pre-regulation/Freshwater ecology/Fisheries biology/Aquatic invertebrates/Colorado related/Hydropower.

Knox, D. A. 1944. Summer birds of the Gothic area, Gunnison Country, Colorado. *The Auk*. 61: 19-30.  
Wildlife biology/Gunnison/Pre-regulation.

Marsh, B. W. 1905. The Uncompahgre valley and the Gunnison tunnel: a description of scenery, natural resources, products, industries, exploration, adventures, &c. Montrose, Colorado: Marsh and Torrence: 13-151.  
Pre-regulation/Gunnison/Historical/Economics.

Martinez, P. J. 1986A. White River Taylor Draw Project: pre- and post- impoundment fish community investigations; final report. Grand Junction, Colorado: Colorado Division of Wildlife; Contract 5281-x. 121 pp.  
Fisheries biology/Pre-regulation/Stream regulation/Colorado related.

McConnell, I. W. 1904. Topographic work in the grand canyon of the Gunnison. *Water Supply Paper*: U.S. Geological Survey; 95. 162-167.  
Gunnison/Mapping/Pre-regulation.

Miller, P. H. 1962. Catalogued fish collections from the Gunnison River Basin, Colorado, in the University of Michigan Museum of Zoology. U. of Michigan: U. of Michigan Museum.  
Fisheries biology/Gunnison/Pre-regulation/BLCA file.

Miller, T. 1966. A history of the Gunnison Water Works: 1880- 1906. Gunnison, Colorado: Western State College (thesis). 68 leaves.  
Pre-regulation/Historical/Water supply/Gunnison.

Moulder, E. A. 1960. Memorandum on the ground water investigation of the north rim of the Black Canyon of the Gunnison National Monument, Colorado. Fort Collins, CO: National Park Service, (on file) Water Resources Division.  
WRD file/Hydrology/Gunnison/NPS document/Pre-regulation.

Murphy, E. C. 1906. Discussion of flood conditions on Purgatory, Grand, and Gunnison rivers. In: *Destructive floods in the United States in 1905*. Water-Supply paper 162: U.S. Geological survey. 105 pp.  
Historical/Gunnison/Fluvial geomorphology/Pre-regulation.

Reed; and Norton. 1963. Algae of Black Canyon of the Gunnison National Monument. appendix in: ?  
Riparian vegetation/Gunnison/Pre-regulation.

Reed, E. B.; and C. Norton. 1963. Survey of aquatic insects and aquatic plants in the Gunnison River, Black Canyon of the Gunnison National Monument. submitted to Black Canyon of the Gunnison N.M.: National Park Service.  
This study was undertaken to learn something of the aquatic organisms inhabiting the Gunnison River in the vicinity of the National Monument. In a short time the Gunnison River will be impounded by a series of three dams located upstream from the National Monument. In addition to contributing to the knowledge of the present flora and fauna, this study should provide a basis for future studies following impoundment of the river.  
Freshwater ecology/Aquatic invertebrates/Riparian vegetation/ Gunnison/BLCA file/Pre-regulation.

Richardson Jr., J. W. 1962. A stream survey of East Elk Creek, Gunnison River, Colorado. *Anthropological Papers*. 59: 152-159.  
Objectives: (1) To assess the potential value of the stream for production of bottom fauna as a source of

food for vertebrate animals, mainly fish. (2) To ascertain what ecological factors might be significant to the bottom invertebrates as a potential source of food for fish populations.  
 Freshwater ecology/Gunnison/Pre-regulation.

Toll, R. W. 1932. [Letter to NPS Director]. ; 1932.

Letter recommending that the Black Canyon of the Gunnison River become a national monument.  
 Historical/Gunnison/Pre-regulation.

Tonge, T. 1896. The Gunnison gold belt: and Gunnison County, Colorado. Denver, Colorado: Issued by the Passenger Department, South Park Line, and the Miners' and Merchants' Association of Gunnison County. 31 pp.

Historical/Pre-regulation/Gunnison.

U. S. Fish and Wildlife Service, U.S.D.I. 1957. A report on fish and wildlife resources Curecanti Unit, Colorado River Storage Project, Colorado. Colorado: U. S. Fish and Wildlife Service.

This report contains a detailed analysis of the effect of Curecanti unit, Colorado River Storage project, upon fish and wildlife resources in the Gunnison River Valley, Colorado.

Wildlife biology/Fisheries biology/Gunnison/Pre-regulation/ Stream regulation.

U. S. Geological Survey, U.S.D.I. 1902. Water resources of the State of Colorado.

Pre-regulation/Hydrology/Colorado related.

Woodbury, A. M. 1962. Ecological studies of the flora and fauna of the Curecanti Reservoir Basins, Western Colorado. Anthropological Papers (Dept. of Anthropology, U. of Utah, S.L.C.). 59: 1-285.

Pre-regulation/Riparian ecology/Gunnison/CURE file.

Woodbury, A. M.; Durrant, S. D.; and S. Flowers. 1962. A survey of vegetation in the Curecanti Reservoir Basins. Anthropological Papers. 56: 1-98.

This paper deals with the vegetation of the area that will be inundated by the three Curecanti reservoirs, Blue Mesa, Morrow Point, and Crystal, located successively downstream along the Gunnison River between Gunnison, Colorado and the Black Canyon National Monument.

Pre-regulation/Riparian ecology/Riparian vegetation/Gunnison/ CURE file.

## **RECLAMATION LAW (includes instream flow protection and environmental policy)/WATER LAW/WATER CONTRACT/WATER RIGHTS**

Anderson, T., ed. 1983. Water rights: scarce resource allocation, bureaucracy, and the environment. 348 pp.  
 Water rights/General research related.

Bell, D. C.; and N. K. Johnson. 1990 Sep. State water laws and federal water uses: the history of conflict, the prospects for accommodation. Environmental Law.  
 Water law/Stream regulation/General research related.

Booker, J. F.; and R. A. Young. 1991 Aug 1. Economic impacts of alternative water allocation institutions in the Colorado River Basin. Completion report. (161).  
 Economics/Stream regulation/Water contract/Colorado related.

Bruce, C. A. 1933. History of federal reclamation and its accomplishments on the Uncompahgre Project, Colorado. Gunnison, Colorado: Western State College (thesis).  
Reclamation law/Pre-regulation/Historical/Gunnison.

Bureau of Reclamation and U.S.D.I. Office of the Solicitor. 1972. Federal Reclamation and related laws annotated. Volume I, through 1942 (727 pp.); Volume II, 1943-1958 (1483 pp.); Volume III, 1959-1966 (2221 pp.), Index. Washington, D. C.: U. S. Government Printing Office.  
Reclamation law/Colorado related.

Bureau of Reclamation, U.S.D.I. 1992. Proposed contract to deliver water from the Wayne N. Aspinall Unit of the Black Canyon of the Gunnison National Monument (draft contract). Grand Junction, Colorado: Bureau of Reclamation, National Park Service, Bureau of Land Management and Colorado Water Conservation Board. 21 pp.  
Water contract/Gunnison.

---. 1975 Aug. Uncompahgre Project, Curecanti unit, Colorado River Storage Project, and Upper Gunnison River Water Conservancy District, operation and storage exchange agreement. Salt Lake City, UT: unpublished document, Bureau of Reclamation.  
Water contract/Reservoir operation and management/Gunnison.

Bureau of Reclamation, U. S. D. I. 1978. Updating the Hoover Dam documents (parts I and II). M. N. Nathanson, compil. Denver, Colorado: U. S. Government Printing Office.  
Colorado related/Legislation/Water contract.

Center for Public-private Sector Cooperation, University of Colorado. 1993. Recommendations on the legal, policy, and institutional issues related to instream flow protection in Colorado. U. of Colorado: Colorado River Recovery Implementation Program. (Colorado River Recovery Implementation Program Reports).  
Water law/Stream regulation/Colorado related.

Colorado Department of Natural Resources, Office of the Executive Director. 1978. The Colorado water study: directions for the future: legal studies. Denver, Colorado: Colo. Dept. of Natural Resources. 900 pp.  
Water law/General research related.

Colorado Division of Water Resources, Office of the State Engineer. Water rights tabulation. Published biennially. Denver, Colorado: State of Colorado, Office of the State Engineer.  
A compilation, by statute, of all water rights decrees.  
Colorado related/Legislation/Water rights.

Colorado Water Court. 1991. Black Canyon summary of Judge Brown ruling (Colorado water court) on the Arapahoe water case from the finds of fact, conclusions of law, and judgement and decree dated October 21, 1991.  
Water law/Gunnison.

Colorado Water Conservation Board. 1952. Report of Policy and Review Committee, Gunnison River Storage, to the Colorado Water Conservation Board. Denver, Colorado: Policy and Review Committee, Gunnison River Storage.  
Water supply/Reclamation law/Pre-regulation/Gunnison.

Dawdy, D. O. 1992 Jul. The Colorado doctrine and in-stream flows. Environment. 5 pp.  
Stream regulation/Reclamation law/Colorado related.

Estes, M. K. The effect of the Federal Endangered Species Act on state water rights. *Environmental Law*. Spring 1992.  
 Water rights/Endangered Species/General research related.

General Accounting Office. 1977. Improvements needed in the Corps of Engineers' regulatory program for protecting the nation's waters. Wash., D.C.: G.A.O.; CED-78-17. 16 pp.  
 Reclamation law/General research related.

Guy, D. J. 1991. When the law dulls the edge of chance: transferring Upper Basin water to the Lower Colorado River Basin. *Utah Law Review*. 1: 25.  
 Water law/Colorado related.

Hobbs Jr., G.; and B. W. Raley. 1989. Water rights protection in water quality law. *Univeristy of Colorado Law Review*. 60(4): 841.  
 Water rights/Water quality/General research related.

Lamb, B. L.; and E. Lord. 1992. Legal mechanisms for protecting riparian resource values. *Water Resources Research*. 28: 965-977.  
 General research related/Water law.

Leshy, J. D. 1990 Jul. The prior appropriation doctrine of water law in the West: an emperor with few clothes. *Journal of the West*. 9 pp.  
 Water law/General research related.

Libecap, G. D. 1991 Mar. Markets for federal water: subsidies, property rights, and the Bureau of Reclamation. *Journal of Economic Literature*.  
 Water rights/Reclamation law/Economics/General research related.

Osmundson, D. B.; and L. R. Kaeding. 1989. Studies of Colorado squawfish and razorback sucker use of the '15-mile reach' of the Upper Colorado River as part of conservation measures for the Green Mountain and Ruedi Reservoir water sales; final report. Grand Junction, Colorado: U. S. Fish and Wildlife Service, U.S.D.I.  
 Endangered species/Fisheries biology/Stream regulation/Water contract/Colorado related.

S. E. L. & Associates. Rivers: studies in the science, environmental policy, and the law of instream flow.  
 Water law/Hydrology/Stream regulation/Colorado related.

U. S. Department of Interior; and State of Colorado. Preliminary working draft: Colorado River storage project Wayne N. Aspinall storage unit water service contract between The Bureau of Reclamation, The National Park Service, The Bureau of Land Management and The Colorado Water Conservation Board. 12 pp.  
 Water contract/Gunnison.

---. 1992 Apr. Public information packet: proposed contract to deliver water from the Wayne N. Aspinall Unit to the Black Canyon of the Gunnison National Monument. Unpublished report by Bureau of Reclamation, National Park Service, Bureau of Land Management and Colorado Water Conservation Board. 21 pp.  
 Water contract/Gunnison.

Upper Colorado River Basin Compact Commission. 1948. Official record of negotiation of Upper Colorado River Basin Compact (signed Oct. 1948, Santa Fe, N.M.) Volumes I and II. Santa Fe, N.M.: U. Colo. R. Basin Compact Commission.  
 Colorado related/Water contract.

Viscoli, S. J. 1991 Sep. The Resource Conservation Group proposal to lease Colorado river water. *Natural Resources Journal*. 31(4): 887.  
Water contract/Colorado related.

Volkman, J. M. 1988 Jun. Within the Hundredth Meridian: western states and their river basins in a time of transition. *University of Colorado Law Review*. 59(3): 551.  
Water law/General research related.

WBLA, Inc. 1986. Curecanti minimum stream flow water rights study-draft. Boulder, CO: manuscript prepared for The Nature Conservancy, Colorado field office. 39 pp.  
Water rights/Gunnison.

Wilkinson, C. F. 1988. To settle a new land: an historical essay on water law and policy in the American West and Colorado. In: Getches, D. H. *Water and the American West*. University of Colorado, Boulder, Co., USA: University of Colorado School of Law, Natural Resources Law Center: 1-17.  
Water law/Colorado related.

### **RESERVOIR OPERATION AND MANAGEMENT** (includes flood control hazard assessment, floodplain information and icing)

Ashton, G. D. 1988. Analysis of potential icing problems in the Gunnison River -- based on a series of analyses. Houston, Texas: EMANCO, Inc., unpublished report. 11 pp.  
Stream regulation/Reservoir operation and management/Gunnison.

---. 1987. Effect of diversions of flows of Gunnison River on ice extent downstream. Houston, Texas: EMANCO, Inc., unpublished report. 6 pp.  
Stream regulation/Reservoir operation and management/Gunnison.

Bureau of Reclamation, U.S.D.I. 1975. Blue Mesa Dam and Powerplant. Denver, Colorado: U. S. Bureau of Reclamation. 426 pp.  
Hydropower/Reservoir operation and management/Gunnison.

---. 1982. Bostwick Park project: Colorado, Montrose and Gunnison counties. Upper Colorado Region: Bureau of Reclamation.  
Reservoir operation and management/Water supply/Gunnison/ Colorado related.

---. 1950. Colorado River Storage Project and participating projects, Upper Colorado River Basin. Upper Colorado Region: Bureau of Reclamation.  
Reservoir operation and management/Water supply/Colorado related.

---. 1976 Nov. Dallas Creek project, Colorado, definite plan report (including plans for Ridgeway Reservoir). Upper Colorado Region: Bureau of Reclamation.  
This project is connected with the Aspinall Unit.  
Gunnison/Reservoir operation and management.

---. 1977 Apr. Dolores project, Colorado, definite plan report. Upper Colorado Region: Bureau of Reclamation.  
Colorado related/Reservoir operation and management.

---. 1987. Lower Gunnison Basin unit (winter water): preconstruction report. Upper Colorado Region: Bureau of Rec.  
Reservoir operation and management/Stream regulation/Gunnison.

---. 1983. Paonia project: Colorado, Delta and Gunnison counties. Upper Colorado region: Bureau of Reclamation. 8 pp.  
Reservoir operation and management/Gunnison/Colorado related.

---. 1990. Status of reservoirs, Colorado River Storage Project, reservoir behind Crystal Dam. Upper Colorado Region: Bureau of Reclamation.  
Reservoir operation and management/Stream regulation/Colorado related.

---. 1975 Aug. Uncompahgre Project, Curecanti unit, Colorado River Storage Project, and Upper Gunnison River Water Conservancy District, operation and storage exchange agreement. Salt Lake City, UT: unpublished document, Bureau of Reclamation.  
Water contract/Reservoir operation and management/Gunnison.

---. 1983. Uncompahgre project: Colorado, Delta, Gunnison, and Montrose counties. Upper Colorado Region: Bureau of Reclamation. 8 pp.  
Reservoir operation and management/Gunnison/Colorado related.

---. 1973 Aug. Upper Gunnison Project, Colorado, concluding report. Upper Colorado Region, Salt Lake City, Utah: Bureau of Reclamation.  
Reservoir operation and management/Gunnison/Water supply.

---. 1989. Wayne N. Aspinall storage unit. Upper Colorado Region: Bureau of Reclamation. 10 pp.  
Reservoir operation and management/Gunnison.

Bureau of Reclamation, U. S. D. I. 1950 Dec. Colorado River Storage Project and participating projects, Upper Colorado River Basin project planning report. Salt Lake City, Utah: Bureau of Reclamation; No. 4-8a. 81-1.  
Colorado related/Reservoir operation and management.

---. 1958. Financial and economic analysis of the Colorado River Storage Project and participating projects (prepared for U. S. Senate, 85th Congress, 2nd session - document #101). Washington, D. C.: U. S. Government Printing Office.  
Colorado related/Economics/Reservoir operation and management.

Burgi, P. H. 1979. Winter ice jams on the Gunnison River. Denver, Colorado: U.S. Bureau of Reclamation, Engineering and Research Center, Division of Research, Hydraulics Branch; REC-ERC-79-4. 30 pp.  
Stream regulation/Reservoir operation and management/Gunnison.

Carrier, J. 1991 Jun 1. Water and the West: the Colorado River. *National Geographic*. 179(6): 2.  
Increasing demand and persistent drought have drawn down the reservoirs of the Colorado River system, a critical water source for seven states and part of Mexico.  
Reservoir operation and management/Water supply/Economics/ Colorado related.

Colorado Division of Water Resources, Office of the State Engineer. Dams database. Denver, Colorado: State of Colorado, Office of the State Engineer.  
A data collection pertaining to all structural components of dams: dimensions, safety inspections and operating procedures.  
Colorado related/Reservoir operation and management.

---. Water diversion records and reservoir storage summaries. Published annually (from approx. 1900 through the present). Denver, Colorado: State of Colorado, Office of the State Engineer.  
 Colorado related/Reservoir operation and management/Water supply.

Eckhardt, D. W.; and D. W. Litke. 1988. Estimation of reservoir surface areas using satellite imagery, Upper Gunnison River Basin, Colorado.  
 Photo documentation/Reservoir operation and management/Gunnison.

Engineering Consultants. Floodplain information report: Gunnison River, Tomichi Creek, Gunnison, Colorado. Denver, Colorado: prepared by Engineering Consultants, Inc. for the City of Gunnison, Gunnison County, and the Colorado Water Conservation Board. 32 leaves.  
 Reservoir operation and management/Gunnison.

Foote, W. E., ed. 1965. A technical presentation of Morrow Point Dam and powerplant foundation investigation: Colorado River Storage Project, Colorado. Denver, Colorado: Dept. of the Interior. 190 pp.  
 Hydropower/Reservoir operation and management/Gunnison/Colorado related.

Gore, J. A.; and G. E. Petts, eds. 1989. Alternatives in regulated river management. Boca Raton, Florida: CRC Press.  
 General research related/Reservoir operation and management/Stream regulation/Freshwater ecology.

Morrison-Knudsen Engineers, Inc. 1985. Gunnison River icing study, summary report. Gunnison, Colorado: Prepared for the Upper Gunnison River Water Conservancy District. 59 pp.  
 Reservoir operation and management.

National Park Service, U.S.D.I. 1990. J. Riedel, project manager. Skagit River project (FERC No. 553) report on existing conditions of reservoir and streambank erosion. submitted by Seattle City Light. 96 pp.  
 Reservoir operation and management/Stream regulation/ Geomorphology/Other region related.

Pugh, C. A. 1982. Hydraulic model studies of landslide-generated water waver-Morrow Point Reservoir. 60 pp.  
 Reservoir operation and management/Hydrology/Geomorphology/ Gunnison.

Schmidt, J. C.; and D. T. Patten (Department of Geography and Earth Resources, Utah State University, Logan UT 84322-5240; 801- 750-1791, and Center for Environmental Studies, Arizona State University, Tempe, AZ 85287; 602-925-2975). Development of interim and permanent reservoir-release rules for Glen Canyon Dam. American Geophysical Union; 1992 Dec.  
 Reservoir operation and management/Stream regulation/Colorado related.

Thornton, L. M. 1975. Applications of geomorphology to land-use planning and recreation at Blue Mesa Reservoir, Gunnison County, Colorado [thesis]. Lawrence, Kansas: University of Kansas. 99 leaves.  
 Reservoir operation and management/Geomorphology/Recreation/ Gunnison.

U. S. Army Corps of Engineers, Sacramento District. 1980. Flood hazard information, North Fork Gunnison River, Hotchkiss to Somerset, Delta and Gunnison Counties, Colorado (Gunnison and Uncompahgre Rivers). Sacramento, California: U. S. Army Corps of Engineers, Sacramento District. 11 pp.  
 Hydrology/Reservoir operation and management/Gunnison/Colorado related.

Upper Colorado River Commission. Upper Colorado River Commission official record (annual transcripts of Commission meetings: Volumes 1 through 44 (1992).  
 The Upper Colorado River Commission includes representatives from Colo., N. Mex., Utah, Wy., and the federal gov't. The annual transcripts report on water use and delivery, water storage, flood control, agricultural and industrial development.

Colorado related/Reservoir operation and management/Water supply.

Water Science and Technology Board. 1991. Colorado River ecology and dam management. Washington, D. C.: National Academy Press. 276 pp.  
 Reservoir operation and management/Freshwater ecology/Riparian ecology/Stream regulation/Colorado related.

---. 1987. River and dam management. Washington, D. C.: National Academy Press. 152 pp.  
 Reservoir operation and management/Stream regulation/General research related.

## RESOURCE AND LAND MANAGEMENT

Bowden, C. 1990 Apr 1. In search of a lost river: The Imperial National Wildlife Refuge preserves a flavor of the old, untamed Colorado. *Arizona Highways*. 66(4): 34.  
 Historical/Resource and land management/General research related.

Brown, S.; M. S. Brinson; and A. E. Lugo. 1979. Structure and function of riparian wetlands [Pages 17-31]. In: R. R. Johnson and J. F. McCormick, technical coordinators. *Strategies for protection and management of floodplain wetlands and other riparian ecosystems*. Washington, D.C.: U. S. Forest Service, U.S.D.A.; Publ. GTR-WO-12. 410 pp.  
 Riparian ecology/Resource and land management//General research related.

Brussard, P. F. 1982. The role of field stations in the preservation of biological diversity. *BioScience*. 32: 327-330.  
 Resource and land management/General research related.

Bureau of Land Management, U.S.D.I. 1991. Draft resource management plan and environmental impact statement, March, 1991. Montrose, Colorado: prepared by U. S. Dept. of the Interior, Bureau of Land Management, Colorado State Office, Montrose District, Gunnison Resource Area.  
 Resource and land management/Environmental document/Gunnison.

---. 1991. Gunnison resource area resource management plan and environmental impact statement. Montrose, Colorado: B.L.M., U.S.D.I.  
 Resource and land management/Environmental document/Gunnison.

---. 1982. Management guidelines for multiple use of public lands microform: Gunnison Basin and American Flats-Silverton Planning Areas. Montrose, Colorado: B.L.M., U.S.D.I. 47 pp.  
 Resource and land management/Gunnison/Colorado related.

---. 1980. Proposed domestic livestock grazing management program in the Gunnison Basin resource area and Silverton planning unit, Montrose District, Colorado. Montrose, Colorado: B.L.M., U.S.D.I. 401 pp.  
 Resource and land management/Gunnison.

---. 1985. Recreation management plan for the Gunnison Gorge Recreation Lands. Montrose District: Bureau of Land Management, U.S.D.I.  
 Resource and land management/Recreation/Gunnison/BLCA file.

---. 1985. Resources management plan for the Gunnison Gorge Recreation Lands, Colorado. Montrose, Colorado: B.L.M., U.S.D.I.

Resource and land management/Gunnison/BLCA file.

---. 1987. Uncompahgre Basin resource management plan and environmental impact statement (on file at BLCA). Montrose District, Colorado: B.L.M., U.S.D.I. 3 pp.  
Resource and land management/Environmental document/Gunnison/ BLCA file.

---. 1989. Uncompahgre Basin wilderness: final environmental impact statement. Montrose District, Uncompahgre Basin Resource Area, Colorado: B.L.M., U.S.D.I.

This final environmental impact statement analyzes and describes the environmental, social, and economic effects of designating or not designating as wilderness, three wilderness study areas in the Uncompahgre Basin Resource Area. The study areas are Gunnison Gorge (21,038 acres), Camel Back (10,402 acres), and Adobe Badlands (10,425 acres). The All Wilderness and No Wilderness Alternatives were considered for each WSA. In addition, an Enhanced All Wilderness Alternative was developed as the Proposed Action for the Gunnison Gorge WSA. The Proposed Action, which was identified after the environmental analysis, recommends the entire Gunnison Gorge WSA, plus as additional 1, 040 acres, (22,078 acres total) as preliminarily suitable for wilderness designation.

Resource and land management/Environmental document/Gunnison.

Colorado State Planning Division. 1962. A comprehensive plan for the Gunnison-Uncompahgre region, Colorado. Denver, Colorado: Colo. State Planning Division.  
Economics/Resource and land management/Gunnison.

Debano, L. F.; and L. J. Schmidt. 1990 Jun 1. Potential for enhancing riparian habitats in southwestern United States with watershed practices. *Forest Ecology and Management*. 33/34(1/4): 385.  
Resource and land management/Riparian vegetation/Riparian ecology/General research related.

Fox, C. J.; and J. Y. Nishimura. 1965. Soil management report: Taylor River area, Gunnison National Forest. Denver, Colorado: U. S. Forest Service, Rocky Mountain Region, Division of Multiple Use, Soils and Watershed Management. 87 leaves.  
Soils/Resource and land management/Gunnison.

Hardinger, H. W. 1900. Report on the Crystal River District of Gunnison County, Colorado. Denver, Colorado. 17 leaves.  
Resource and land management/Pre-regulation/Gunnison.

HDR Engineering, Inc. 1988. Phase I feasibility study for Upper Gunnison-Uncompahgre Basin, task memorandum no. 4, recreation and environmental enhancement opportunities. HDR Engineering, Inc.  
Recreation/Resource and land management/Gunnison.

Moyle, P. B.; and R. M. Yoshiyama. 1994. Protection of aquatic biodiversity in California: a five-tiered approach. *Fisheries* (Bethesda). 19: 6-18.  
Freshwater ecology/General research related/Other region related/Resource and land management.

National Park Service, U.S.D.I. Bibliography of Black Canyon of the Gunnison National Monument Library. Black Canyon of the Gunnison N.M.: National Park Service.  
Resource and Land Management/BLCA file/Gunnison.

---. 1984. Curecanti National Recreation Area: statement for management. CURE: NPS.  
Resource and land management/Gunnison/NPS management document.

---. 1986. Curecanti National Recreation Area: statement for management. CURE: NPS.  
Resource and land management/Gunnison/NPS management document.

- . 1988. Curecanti National Recreation Area: statement for management. CURE: NPS. Resource and land management/WRD file/Gunnison/NPS management document.
- . 1982. Draft general management plan and development concept plans, Black Canyon of the Gunnison National Monument, Colorado. BLCA: NPS. 65 pp. Resource and land management/BLCA file/Gunnison/NPS management document.
- . 1971. Final recommendation, wilderness study, Black Canyon of the Gunnison National Monument, Colorado. (on file at BLCA): NPS. 33 pp. NPS management document/Gunnison/Resource and land management/ BLCA file.
- . 1983. General management plan and development concept plans, Black Canyon of the Gunnison National Monument, Colorado. Denver, Colorado: Denver Service Center. 69 pp. Resource and land management/Gunnison/NPS management document/ BLCA file.
- . 1979. Gunnison River. Denver, Colorado: Denver Service Center: prepared by NPS in cooperation with the Colorado Dept. of Natural Resources; NPS 1479. 177 pp. Resource and land management/Gunnison/NPS document.
- . 1985. Land protection plan, Black Canyon of the Gunnison National Monument, Colorado. NPS unpublished report: prepared by BLCA for NPS Rocky Mountain Regional Office. 18 pp. Resource and land management/BLCA file/Gunnison/NPS management document.
- . National Park Service Technical Information Center (TIC). Denver, Colo.: Denver Service Center. The technical information center houses resource data for the National Park System. Resource and land management/Colorado related/NPS document.
- . 1991. Natural resources management guidelines, NPS-77. Washington, D. C.: U. S. Government Printing Office; 1991-524- 709/D06411. Resource and land management/Colorado related/NPS document.
- . 1973. Proposed wilderness area, Black Canyon of the Gunnison National Monument, Colorado. NPS Midwest Region: Curecanti Group. 56 leaves. Resource and land management/Gunnison.
- . 1980. Record of decision and finding of no significant impact for the General Management Plan and development concept plans, Black Canyon of the Gunnison National Monument, Colorado. Denver, Colorado: prepared by National Park Service. 4 leaves. Resource and land management/NPS document/Gunnison.
- . 1990. Resource/boundary evaluation for lands adjacent to Black Canyon of the Gunnison National Monument, Colorado. Denver, Colorado: NPS Rocky Mountain Regional Office, U.S.D.I. 76 pp. Resource and land management/NPS Document/Gunnison.
- . 1987. Statement for management: Black Canyon of the Gunnison National Monument. BLCA: NPS. 42 pp. Resource and land management/BLCA file/Gunnison/NPS management document.
- . 1989. Statement for management: Black Canyon of the Gunnison National Monument. BLCA: NPS. 43 pp. Resource and land management/BLCA file/Gunnison/NPS management document.
- . 1992. Statement for management: Black Canyon of the Gunnison National Monument. BLCA: NPS. 60 pp. Resource and land management/BLCA file/Gunnison/NPS management document.

---. 1979. Wild and scenic river study, Gunnison River. NPS, Black Canyon of the Gunnison National Monument: Prepared in cooperation with the Colorado Department of Natural Resources. 176 pp. Resource and land management/Gunnison/BLCA file.

---. 1979. Wilderness recommendation, Black Canyon of the Gunnison National Monument, Colorado. BLCA: NPS. 33 pp. Resource and land management/NPS document/Gunnison/RMRO file.

Nelson, Haley, Patterson and Quirk, Inc. 1972. Engineering study for water supply and sewage collection and treatment for Black Canyon of the Gunnison National Monument. N, H, P and Q, Inc.: prepared for the National Park Service under contract no. 4970B20019. 70 pp. NPS management document/Resource and land management/Gunnison.

Office of Surface Mining, U.S.D.I. Technical environmental analysis, mining and reclamation plan, Mt. Gunnison mine, Gunnison County, Colorado, ARCO Coal Company. Prepared for Office of Surface Mining: U. S. Dept. of the Interior. Resource and land management/Gunnison.

Sparks, Richard E. 1995. Need for ecosystem management of large rivers and their floodplains. BioScience. 45(3): 168-182. Freshwater ecology/Riparian ecology/Resource and land management/General research related.

U. S. Forest Service, U.S.D.A. 1981. Grand Mesa, Uncompahgre, and Gunnison National Forests: land and resource management plan (proposed). Delta, Colorado: U. S. Forest Service, Rocky Mountain Region. 114 pp. Resource and land management/Gunnison.

---. 1983. Grand Mesa, Uncompahgre, and Gunnison National Forests land and resource management plan. Delta, Colorado: U. S. Forest Service, Rocky Mountain Region. Resource and land management/Gunnison.

---. 1960. Gunnison National Forest: general statement and working circle plan, July 1, 1962-June 30, 1972. Denver, Colorado: U. S. Forest Service, Region 2. 25, 46 leaves. Resource and land management/Gunnison.

---. 1992. Instream flow needs assessment and recommendations for the proposed Piedra Wilderness (San Juan National Forest). Rocky Mountain Regional Office: U. S. Forest Service. 25 pp. Resource and land management/Stream regulation/Colorado related.

---. 1989. Proposed amendment of the land and resource management plan for the Grand Mesa, Uncompahgre, and Gunnison National Forests: land and resource management plan. Delta, Colorado: U. S. Forest Service, Rocky Mountain Region. Resource and land management/Gunnison/Colorado related.

---. 1984. Summary of the final environmental impact statement and the land and resource management plan for the White River National Forest, Eagle, Garfield, Gunnison, Mesa, Moffat, Pitkin, Rio Blanco, Routt, and Summit counties, Colorado. Glenwood Springs, Colorado: U. S. Department of Agriculture, U. S. Forest Service. Resource and land management/Environmental document/Gunnison/ Colorado related.

U. S. Senate, Committee on Interior and Insular Affairs, Environment and Land Resources Subcommittee. 1976. The preparation of the East River unit plan, Gunnison National Forest, Colorado: report together with

additional and minority views of the Subcommittee on the Environment and Land Resources of the Committee on Interior and Insular Affairs, September 1976. Washington, D. C.: U.S.G.P.O. 196 pp. Resource and land management/Gunnison.

White, W. L. 1964. A five-year wildlife and range management plan for Black Canyon of the Gunnison National Monument. Black Canyon of the Gunnison N.M.: National Park Service. Wildlife biology/Gunnison/Resource and land management/BLCA file.

Wick, E. J. 1992. River management and habitat restoration strategy: an issue paper on habitat development. Recovery Program - Endangered Fishes - Upper Colorado River: U. S. Fish and Wildlife Service Technical Paper in prep. Freshwater ecology/Resource and land management/Fisheries biology/Coloradorelated/Endangered species.

Williams, O. R.; S. L. Ponce; and A. E. Johns. 1988. The use of departure analysis in decision making. In: Water use data for water resources management. : American Water Resources Association: 447-453. General research related/Water supply/Resource and land management.

## RIPARIAN ECOLOGY/RIPARIAN VEGETATION

Andersen D. C.; and D. J. Cooper (Bureau of Reclamation Environmental Sciences Section, Denver Office, and Colorado State University Dept. of Fishery and Wildlife Biology). 1993. Comparative ecosystem dynamics in riparian zones along regulated and unregulated rivers, the Green and Yampa - preliminary proposal. Submitted to: Bureau of Reclamation: Upper Colorado Regional Office. Stream regulation/Riparian vegetation/Riparian ecology/Colorado related.

Anderson, D. C.; R S. Hoffmann; and K. B. Armitage. 1979. Aboveground productivity and floristic structure of a high subalpine herbaceous meadow. Arctic and Alpine Research. 11: 467- 476. Riparian ecology/Gunnison.

Aspi, J.; J. Lumme; and A. Hoikkala. 1993 Jan 1. Reproductive ecology of the boreal riparian guild of *Drosophila*. Ecography. 16(1): 65. Riparian ecology/Aquatic invertebrates/General research related.

Asplund, K. K.; and M. T. Gooch. 1988. Geomorphology and the distributional ecology of Fremont Cottonwood (*Populus fremontii*) in a desert riparian canyon. Desert Plants. 9(1): 17. Riparian vegetation/Geomorphology/Riparian ecology/General research related.

Auble, G. T.; J. M. Friedman; and M. L. Scott. 1994. Relating riparian vegetation to present and future streamflows. Ecological Applications. 4(3): 544-554. A direct gradient method to predict riparian vegetation change resulting from a proposed upstream dam or diversion is presented. The method was applied to riparian vegetation of the Black Canyon of the Gunnison National Monument along the Gunnison River in Colorado. Quantitative changes in the extent of defined vegetative cover types were estimated for 3 hypothetical flow regimes. Results suggest that 1) it is possible to cause substantial changes in riparian vegetation without changing mean annual flow, and 2) riparian vegetation is especially sensitive to changes in minimum and maximum flows. Riparian vegetation/Riparian ecology/Stream regulation// Gunnison.

Auble, G. T.; J. Friedman; and M. L. Scott. 1991. Riparian vegetation of the Black Canyon of the Gunnison River, Colorado: composition and response to selected hydrologic regimes based on a direct gradient assessment model. Unpublished report by U. S. Fish and Wildlife Service, National Ecology Research Center: for National Park Service, Water Resources Division, Water Rights Branch. 79 pp.  
 Stream regulation/Riparian vegetation/Riparian ecology/Gunnison.

Baker, W. L. 1989 Apr 31. Classification of the riparian vegetation of the montane and subalpine zones in western Colorado. *The Great Basin Naturalist*. 49(2): 214.  
 Riparian vegetation/Colorado related.

---. 1990 Jan 1. Climatic and hydrology effects on the regeneration of *Populus angustifolia* James along the Animas River, Colorado. *Journal of Biogeography*. 17(1): 59.  
 Hydrology/Riparian vegetation/Colorado related.

---. 1989. Macro- and micro-scale influences on riparian vegetation in western Colorado. *The Annals of the Association of American Geographers*. 14 pp.  
 Riparian ecology/Riparian vegetation/Gunnison.

Barclay, J. S. 1980. Impact of stream alterations on riparian communities in southcentral Oklahoma. U. S. Dept of Interior: U. S. Fish and Wildlife Service (FWS/OBS-80/17).  
 Stream regulation/Riparian ecology/Other region related.

Barrell, J. 1969. Flora of the Gunnison Basin: Gunnison, Saguache, and Hinsdale Counties, Colorado; a study in the distribution of plants. Rockford, Illinois: Natural Land Institute. 494 pp.  
 Riparian vegetation/Gunnison.

---. 1969. Flora of the Gunnison Basin. Rockford, IL: The Natural Land Institute. 494 pp.  
 Riparian ecology/Riparian vegetation/Gunnison.

Bayley, Peter B. 1995. Understanding large river-floodplain ecosystems. *BioScience*. 45(3): 153-158.  
 Freshwater ecology/General research related/Riparian ecology.

Beidleman, R. G. 1969. Checklist of Black Canyon National Monument plants. Colorado Springs, Colorado: Colorado College. 6 pp.  
 Riparian vegetation/Gunnison.

Beidleman, R. G.; Ferchau, H. A.; Hansen, W. R.; Larson, J. W.; Reed, E. B.; Rominger, J. M. 1968. Natural resources basic data for Curecanti and Black Canyon. Scientific Field Team Report for Midwest Region: National Park Service, U.S.D.I. 100 pp.  
 This team was interested in providing a basic understanding of the natural resource components and ecosystem dynamics in both the national monument and national recreation area.  
 Riparian ecology/Freshwater ecology/Stream regulation/Gunnison/ BLCA file/CURE file.

Brinson, M. M.; B. L. Swift; R. C. Plantico; and J. S. Barclay. 1981. Riparian ecosystems: their ecology and status. : United States Fish and Wildlife Service; FWS/OBS-81/17.  
 Riparian ecology/General research related.

Brown, S.; M. S. Brinson; and A. E. Lugo. 1979. Structure and function of riparian wetlands [Pages 17-31]. In: R. R. Johnson and J. F. McCormick, technical coordinators. Strategies for protection and management of floodplain wetlands and other riparian ecosystems. Washington, D.C.: U. S. Forest Service, U.S.D.A.; Publ. GTR-WO-12. 410 pp.

Riparian ecology/Resource and land management//General research related.

Bureau of Land Management, U.S.D.I. 1988. Wilderness study reports for Dolores River Canyon Wilderness. San Juan Resource Area: Bureau of Land Management.

Colorado related/Riparian ecology.

Cairns, J. Jr. 1987. Disturbed ecosystems as opportunities for research in restoration ecology. In: W. R. Jordan, M. E. Gilpin and J. D. Aber, eds. Restoration Ecology. London: Cambridge University Press: 307-320.

Riparian ecology/Gunnison/General research related.

Cairns, J. Jr.; and P. V. McCormick. 1991. The use of community- and ecosystem-level end points in environmental hazard assessment: a scientific and regulatory evaluation. Environmental Auditor. 2(4): 239-248.

Riparian ecology/Gunnison/General research related.

Cole, K. L. 1990 Jan 1. Reconstruction of past desert vegetation along the Colorado river using packrat middens. Palaeogeography, palaeoclimatology, palaeoecology. 76(3/4): 349.

Riparian vegetation/Colorado related.

Current, F. B. 1984. The vascular plants in the vicinity of the Elk Creek Visitor Center Curecanti National Recreation Area. Curecanti N.R.A.: National Park Service.

Riparian ecology/Riparian vegetation/Gunnison/CURE file.

Debano, L. F.; and L. J. Schmidt. 1990 Jun 1. Potential for enhancing riparian habitats in southwestern United States with watershed practices. Forest Ecology and Management. 33/34(1/4): 385.

Resource and land management/Riparian vegetation/Riparian ecology/General research related.

Dekamps, H.; M. Fortune; F. Gazelle; and G. Pautou. 1988. Historical influence of man on the riparian dynamics of a fluvial landscape. Landscape Ecology. 1: 163-174.

Historical/Fluvial geomorphology/Riparian ecology//General research related.

Duncan, W. F. A.; M. A. Brusven; and T. C. Bjornn. 1989 Aug 1. Energy-flow response models for evaluation of altered riparian vegetation in three southeast Alaskan streams. Water Research. 23(8): 965.

Riparian vegetation/Other region related/General research related.

Einwalter, D. C. 1968. List of vascular plants Curecanti National Recreation Area. Curecanti N.R.A.: National Park Service.

Riparian ecology/Riparian vegetation/Gunnison/CURE file.

Engel, S. 1981. Floristic survey of the Riverway-Neversink area. Curecanti N.R.A (file): National Park Service.

The objective of this floristic survey was to obtain an inventory of the plant life along the Gunnison River four miles southwest of Gunnison in the area between Riverway and Neversink day-use areas.

Riparian ecology/Riparian vegetation/CURE file/Gunnison.

Engels, S. 1980. Floristic inventory of Neversink Nature Trail. Curecanti N.R.A.: National Park Service.

This list of species in the herbarium has been filed according to the proper sequence of orders and families as they appear in the hierarchical classification outline for natural history.

Riparian ecology/Riparian vegetation/Gunnison/CURE file.

Fenner, P.; W. W. Brady; and D. R. Patton. 1985. Effects of regulated water flows on regeneration of Fremont cottonwood. Journal of Range Management. 38: 135-138.

General research related/Riparian ecology/Stream regulation/ Riparian vegetation.

Finch, D. M. 1989 Aug 1. Habitat use and habitat overlap of riparian birds in three elevational zones. *Ecology*. 70(4): 866.  
 Riparian ecology/Wildlife biology/General research related.

Fischer, N. T.; M. S. Tolle; A. C. Cully; and L. D. Potter. 1983. Vegetation along the Green and Yampa Rivers and response to fluctuating water levels, Dinosaur National Monument. Final Report under Contract # CX 1200-Z-B024: Submitted to the National Park Service. 179 pp.  
 Riparian ecology/Stream regulation/Riparian vegetation/Colorado related.

Franz, E. H.; and F. A. Bazzaz. 1977. Simulation of vegetation response to modified hydrologic regimes: a probabilistic model based on niche differentiation in a floodplain forest. *Ecology*. 58: 176-183.  
 Riparian ecology/Riparian vegetation/General research related/ Stream regulation.

Fraser, W. C. 1965. A study of lichen ecology in the plant communities of Taylor River Canyon, Colorado. Gunnison, Colorado: Western State College (thesis). 73 leaves.  
 Riparian ecology/Riparian vegetation/Colorado related.

Gecy, J. L.; and M. V. Wilson. 1990 Apr 1. Initial establishment of riparian vegetation after disturbance by debris flows in Oregon. *The American Midland Naturalist*. 123(2): 282.  
 Riparian vegetation/Other region related.

Graf, W. L. 1978. Fluvial adjustments to the spread of tamarisk in the Colorado Plateau region. *Geological Society of America Bulletin*. 89: 1491-1501.  
 Riparian vegetation/Riparian ecology//Fluvial geomorphology/ Colorado related.

Gregory, S. V.; F. J. Swanson; W. A. McKee; and K. W. Cummins. 1991. An ecosystem perspective of riparian zones. *BioScience*. 41: 540-551.  
 Riparian ecology/General research related.

Hewitt III, M. J. 1990 Jun 1. Synoptic inventory of riparian ecosystems: the utility of Landsat Thematic Mapper data. *Forest Ecology and Management*. 33/34(1/4): 605.  
 Riparian ecology/General research related.

Howe; and F. Knopf. 1991. On the imminent decline of Rio Grande cottonwoods in central New Mexico. *The Southwestern Naturalist*. 36: 218-224.  
 Riparian vegetation/General research related.

Hupp, C. R. 1988. Plant ecological aspects of flood geomorphology and paleoflood history. In: Baker, V. R.; R. K. Kochel; and P. C. Patton, eds. *Flood Geomorphology*. Published by Wiley.  
 Riparian vegetation/Hydrology/Geomorphology/General research related.

---. 1992 Aug 1. Riparian vegetation recovery patterns following stream channelization: a geomorphic perspective. *Ecology*. 73(4): 1209.  
 Riparian ecology/Geomorphology/Riparian vegetation/Stream regulation/General research related.

Johnson, B. L.; W. B. Richardson; and T. J. Naimo. 1995. Past, present, and future concepts in large river ecology. *BioScience*. 45(3): 134-141.  
 Freshwater ecology/General research related/Riparian ecology.

Johnson, R. R. 1991. Historic changes in vegetation along the Colorado River in the Grand Canyon. In: *Colorado River Ecology and Dam Management*. Wash., D. C.: National Academy Press: 178- 206.

Riparian ecology/Stream regulation/Riparian vegetation/Colorado related.

Johnson, W. C. Dams and riparian forests; case study from the upper Missouri River. Regulated Rivers (to be published in early 1993).

Riparian ecology/Stream regulation/Riparian vegetation/Other region related/General research related.

---. Dams and riparian forests; case study from the upper Missouri River. Regulated Rivers (to be published in early 1993). Riparian ecology/Stream regulation/Riparian vegetation/Other region related/General research related.

---. 1992. Dams and riparian forests: case study from the upper Missouri River. *Rivers*. 3(4): 229-242. Other region related/Riparian ecology/Riparian vegetation/Stream regulation.

Knight, A. W.; and D. W. Argylo. 1962. Limited limnological studies of the Gunnison River, Colorado. In: Pendergast, D. M., ed. Ecological studies of the flora and fauna of the Curecanti Reservoir basins, western Colorado. University of Utah Anthropological Papers, No. 59. Upper Colorado Series No. 8. Salt Lake City, Utah: University of Utah Press: 135-149.

Freshwater ecology/Riparian ecology/Riparian vegetation/ Gunnison.

Knopf, F. L.; R. R. Johnson; T. Rich; F. B. Samson; and R. C. Szaro. 1988. Conservation of riparian ecosystems in the United States. *Wilson Bulletin*. 100: 272-284. Riparian ecology/General research related.

Kovalchik, B. L.; and L. A. Chitwood. 1990 Jun 1. Use of geomorphology in the classification of riparian plant associations in mountainous landscapes of central Oregon, U. S. A. *Forest Ecology and Management*. 33/34(1/4): 605.

Geomorphology/Riparian vegetation/Other region related/General research related.

Kreger, J. 1982. Final report on the work study program in Curecanti NRA. Curecanti N.R.A.: National Park Service.

Riparian ecology/Gunnison.

Langenheim, J. H. Vegetation and environmental patterns in the Crested Butte area, Gunnison County, Colorado. *Ecological Monographs*. 32: 249-285.

Riparian ecology/Gunnison/Riparian vegetation.

Lichvar, R. 1987 Mar. Riparian vegetation reconnaissance of the Black Canyon of the Gunnison, Spring 1987. Houston, Texas: EMANCO, Inc., unpublished report. 14 pp.

Riparian vegetation/Gunnison.

Ligon, F. K.; W. E. Dietrich; and W. J. Trush. 1995. Downstream ecological effects of dams. *BioScience*. 45(3): 183-192.

Riparian ecology/Stream regulation/Freshwater ecology/General research related/Geomorphology.

Liu, Z. J.; and G. P. Malanson. 1992 Apr 1. Long-term cyclic dynamic of simulated riparian forest stands. *Forest ecology and managment*. 48(3 / 4): 217.

Riparian vegetation/Riparian ecology/General research related.

Mariah and Associates. 1986. Threatened and endangered plant survey and reconnaissance for riparian and wetland habitats on portions of the AB Lateral and Shavano Falls Facilities of the Uncompahgre Valley Hydropower Project, Montrose County, Colorado. Houston, Texas: EMANCO, Inc., unpublished report.

Stream regulation/Endangered species/Riparian ecology/Riparian vegetation/Colorado related/Gunnison.

Median, A. L. 1990 Jun 1. Possible effects of residential development on streamflow, riparian plant communities, and fisheries on small mountain streams in central Arizona. *Forest Ecology and Management*. 33/34(1/4): 335.  
 Riparian ecology/Stream regulation/Riparian vegetation/Fisheries biology/Other region related/General research related.

Meinig, D. W. 1989 Mar 1. Macro- and micro-scale influences on riparian vegetation in western Colorado. *Annals of the Association of the American Geographer*. 79(1): 65.  
 Riparian vegetation/Colorado related.

Moldenke, A. R.; and P. G. Lincoln. 1979. Pollination ecology in montane Colorado: a community analysis. *Phytologia*. 43: 349-379.  
 Riparian ecology/Riparian vegetation/Gunnison.

Morgan, M. D. 1969. Ecology of aspen in Gunnison County, Colorado. *American Midland Naturalist*. 82: 204-228.  
 Riparian vegetation/Riparian ecology/Gunnison.

National Park Service, U.S.D.I. 1991. Annual report of research conducted in Colorado Plateau National Park Service units. Rocky Mountain Regional Office, Dever, Colo.: National Park Service.  
 Riparian ecology/Colorado related/RMRO file.

---. 1987. Black Canyon of the Gunnison Canyon Plants. Tucson, Arizona: Southwest Parks and Monuments Association.  
 Note: Author is unknown.  
 The guide is divided into two major sections, for your convenience. The first part deals with some of the more conspicuous flowering plants of the Black Canyon National Monument. Most all of these can be observed along the roadsides and at scenic overlooks. Section two of this guide is more technical and complete, as it contains a listing of all plants identified within the Black Canyon National Monument.  
 Riparian ecology/Riparian vegetation/Gunnison/BLCA file.

---. 1979. Checklist of Black Canyon National Monument plants. Black Canyon of the Gunnison N.M.: National Park Service.  
 Riparian ecology/Riparian vegetation/Gunnison/BLCA file.

---. Common Lichens of Black Canyon National Monument. submitted to Black Canyon of the Gunnison N.M.: National Park Service.  
 Note: Author and date unknown. List from National Park Service files (N22).  
 Riparian ecology/Riparian vegetation/BLCA file/Gunnison.

Nature Conservancy. 1990. Proposal for developing a riparian vegetation classification system for Colorado. Colorado Field Office, Boulder, Colo.: TNC. 17 pp.  
 Riparian vegetation/General research related.

Pearlstine, L.; H. McKellar; and W. Kitchens. 1985. Modelling the impacts of a river diversion on bottomland forest communities in the Santee River floodplain, South Carolina. *Ecological Modelling*. 29: 283-302.  
 Stream regulation/Riparian ecology/Riparian vegetation/Other region related.

Rector, C. D.; E. W. Mustard; and J. T. Windell. 1979. Lower Gunnison River basin wetland inventory and evaluation. Denver, Colorado: U. S. Dept. of Agriculture, Soil Conservation Service; contract no. 7-07-40-X0327. 90 pp.  
 /Riparian ecology/Gunnison.

Rector, D. C. 1979. Lower Gunnison River Basin wetland inventory and evaluation. Boulder, Colorado: University of Colorado (thesis). 71 leaves.  
Riparian ecology//Gunnison.

Reed; and Norton. 1963. Algae of Black Canyon of the Gunnison National Monument. appendix in: ? Riparian vegetation/Gunnison/Pre-regulation.

Reed, E. B.; and C. Norton. 1963. Survey of aquatic insects and aquatic plants in the Gunnison River, Black Canyon of the Gunnison National Monument. submitted to Black Canyon of the Gunnison N.M.: National Park Service.  
Note: From BLCA files (N22).  
This study was undertaken to learn something of the aquatic organisms inhabiting the Gunnison River in the vicinity of the National Monument. In a short time the Gunnison River will be impounded by a series of three dams located upstream from the National Monument. In addition to contributing to the knowledge of the present flora and fauna, this study should provide a basis for future studies following impoundment of the river.  
Freshwater ecology/Aquatic invertebrates/Riparian vegetation/ Gunnison/BLCA file/Pre-regulation.

Reed, P. B. 1988. National list of plant species that occur in wetlands: National summary. Washington, D.C., USA: U. S. Fish and Wildlife Service; Biological Report 88 (24).  
Riparian vegetation/General research related.

Rinne, J. N.; and R. A. Lafayette. 1991. Southwestern riparian- stream ecosystems: research design, complexity, and opportunity (Research Report RM-299). U.S.D.A. Forest Service: Rocky Mountain Forest and Range Experiment Station.  
Riparian ecology/General research related.

Rocky Mountain Biological Laboratory (RMBL). 1993 Oct. Bibliography of research conducted at the RMBL, 1928-1993. Susan Lohr, ed. Gothic, Colo.: RMBL (unpublished doc.); Misc. Publication No. 2. 38 pp.  
Colorado related/Riparian ecology/Gunnison.

Rominger, J. M. 1963. Preliminary studies of the agrostology of Black Canyon of the Gunnison National Monument. Prepared for Black Canyon of the Gunnison N. M.: NPS Midwest Regional Office (on file). 4 pp.  
Note: From National Park Service files (N22).  
This report represents the results of a survey of the grass flora of the Black Canyon of the Gunnison National Monument which was conducted during the summer of 1962 under the auspices of the National Park Service. Six collecting trips were made to representative areas on both rims and to the canyon floor.  
BLCA file/Riparian ecology/Riparian vegetation/Gunnison/NPS document.

Rood, S. B.; and J. M. Mahoney. 1990. Collapse of riparian poplar forests downstream from dams in western prairies: probable causes and prospects for mitigation. Environmental Management. 14: 451- 464.  
Riparian ecology/Stream regulation/Riparian vegetation/Other region related.

Smith, S. D.; and A. B. Wellington. 1991 Feb 1. Functional responses of riparian vegetation to streamflow diversion in the eastern Sierra Nevada. Ecological Applications. 1(1): 89.  
Riparian ecology/Riparian vegetation/Stream regulation/Other region related.

Snyder, W. D.; and G. C. Miller. 1992 Dec 1. Changes in riparian vegetation along the Colorado River and Rio Grande, Colorado. The Great Basin Naturalist. 52(4): 357.  
Riparian vegetation/Colorado related.

Sparks, Richard E. 1995. Need for ecosystem management of large rivers and their floodplains. *BioScience*. 45(3): 168-182.  
 Riparian ecology/Resource and land management/Freshwater ecology/General research related.

Stanford, J. A.; and J. V. Ward, eds. 1979. *The ecology of regulated streams*. New York: Plenum Press.  
 Freshwater ecology/General research related/Riparian ecology/ Stream regulation.

Stromberg, J. 1993. Instream flow models for mixed deciduous riparian vegetation within a semiarid region. *Regulated Rivers: Research and Management*. 8: 225-235.  
 General research related/Riparian ecology/Riparian vegetation/ Stream regulation.

Stromberg, J. C.; and D. T. Patten. 1991. Instream flow requirements for cottonwoods at Bishop Creek, Inyo County, California. *Rivers*. 2: 1-11.  
 Riparian ecology/Riparian vegetation/Other region related/Stream regulation.

Stromberg, J. C.; and D. C. Patten. 1990. Riparian vegetation instream flow requirements: a case study from a diverted stream in the eastern Sierra Nevada, California, USA. *Environmental Management*. 14: 185-194.  
 Riparian ecology/Stream regulation/Riparian vegetation/Other region related.

Szaro, R. C.; and J. N. Rinne. Ecosystem approach to management of southwestern riparian communities. *Transactions 53rd North American Wildlife and Natural Resources Conference*. 1988: 502- 511.  
 Riparian ecology/General research related.

Tabacchi, E.; A. Planty-Tabacchi; and O. Decamps. 1990. Continuity and discontinuity of the riparian vegetation along a fluvial corridor. *Landscape Ecology*. 5: 9-20.  
 Riparian ecology/Riparian vegetation/General research related.

Tesky, R. O.; and T. M. Hinckley. 1977. Impact of water level changes on woody riparian and wetland communities. Volume 1: plant and soil responses to flooding. Office of Biological Sciences: U. S. Dept. of Interior, U.S. Fish and Wildlife Service; FWS/OBS-77/58.  
 Riparian ecology/Stream regulation/Riparian vegetation/Soils/ General research related/Freshwater ecology.

Tierney, R. W. 1992. Transpiration and water use in a montane riparian ecosystem.  
 Riparian vegetation/Riparian ecology/General research related.

U. S. Geological Survey, U.S.D.I. 1964. Botanical evidence of floods and flood-plain deposition. 35 pp.  
 Geomorphology/Hydrology/Riparian vegetation/General research related.

Ward, J. V.; and J. A. Stanford, eds. 1979. *The ecology of regulated streams*. New York: Plenum Press. 398 pp.  
 Riparian ecology/Freshwater ecology/Stream regulation/General research related.

Water Science and Technology Board. 1991. *Colorado River ecology and dam management*. Washington, D. C.: National Academy Press. 276 pp.  
 Reservoir operation and management/Freshwater ecology/Riparian ecology/Stream regulation/Colorado related.

Weber, W. A. 1983. Checklist of vascular plants, Black Canyon of the Gunnison National Monument. submitted to Black Canyon of the Gunnison N.M.: National Park Service.  
 Riparian ecology/Riparian vegetation/Gunnison/BLCA file.

Wherry, E. T. 1938. Colorado ferns. *American Fern Journal*. 28: 125-140.  
 Riparian vegetation/Riparian ecology/Gunnison.

Woodbury, A. M. 1961. Ecological studies of the flora and fauna of Navajo Reservoir Basin, Colorado and New Mexico. *Anthropological Papers*. 55: 1-203.  
 Riparian ecology/Other region related.

---. 1962. Ecological studies of the flora and fauna of the Curecanti Reservoir Basins, Western Colorado. *Anthropological Papers* (Dept. of Anthropology, U. of Utah, S.L.C.). 59: 1-285.  
 Pre-regulation/Riparian ecology/Gunnison/CURE file.

Woodbury, A. M.; Durrant, S. D.; and S. Flowers. 1962. A survey of vegetation in the Curecanti Reservoir Basins. *Anthropological Papers*. 56: 1-98.  
 This paper deals with the vegetation of the area that will be inundated by the three Curecanti reservoirs, Blue Mesa, Morrow Point, and Crystal, located successively downstream along the Gunnison River between Gunnison, Colorado and the Black Canyon National Monument.  
 Pre-regulation/Riparian ecology/Riparian vegetation/Gunnison/ CURE file.

## **STREAM REGULATION** (includes the effects of stream regulation, streamflows and instream flow needs assessment)

Andersen D. C.; and D. J. Cooper (Bureau of Reclamation Environmental Sciences Section, Denver Office, and Colorado State University Dept. of Fishery and Wildlife Biology). 1993. Comparative ecosystem dynamics in riparian zones along regulated and unregulated rivers, the Green and Yampa - preliminary proposal. Submitted to: Bureau of Reclamation: Upper Colorado Regional Office.  
 Stream regulation/Riparian vegetation/Riparian ecology/Colorado related.

Andrews, E. D. (United States Geological Survey, Boulder Laboratory, MS 458, Box 25046, Federal Center, Denver CO 80225; 303-541-3002). Design of maintenance flows for regulated streams. *American Geophysical Union*; 1992 Dec.  
 Stream regulation/Hydrology/General research related.

---. 1986. Downstream effects of Flaming Gorge Reservoir on the Green River, Colorado and Utah. *Geological Society of America Bulletin*. 97: 1012-1023.  
 Freshwater ecology/Stream regulation/Colorado related.

Andrews, E. D.; and J. M. Nelson. 1989. Topographic response of a bar in the Green River, Utah to variation in discharge. S. Ikeda; and G. Parker, eds. *River Meandering: American Geophysical Union Water Resources Monograph*. 12: 463-485.  
 Stream regulation/Geomorphology/Colorado related.

Ashton, G. D. 1988. Analysis of potential icing problems in the Gunnison River -- based on a series of analyses. Houston, Texas: EMANCO, Inc., unpublished report. 11 pp.  
 Stream regulation/Reservoir operation and management/Gunnison.

---. 1987. Effect of diversions of flows of Gunnison River on ice extent downstream. Houston, Texas: EMANCO, Inc., unpublished report. 6 pp.  
 Stream regulation/Reservoir operation and management/Gunnison.

Auble, G. T.; J. M. Friedman; and M. L. Scott. 1994. Relating riparian vegetation to present and future streamflows. *Ecological Applications*. 4(3): 544-554.  
 A direct gradient method to predict riparian vegetation change resulting from a proposed upstream dam or diversion is presented. The method was applied to riparian vegetation of the Black Canyon of the Gunnison National Monument along the Gunnison River in Colorado. Quantitative changes in the extent of defined vegetative cover types were estimated for 3 hypothetical flow regimes. Results suggest that 1) it is possible to cause substantial changes in riparian vegetation without changing mean annual flow, and 2) riparian vegetation is especially sensitive to changes in minimum and maximum flows.  
 Riparian vegetation/Riparian ecology/Stream regulation// Gunnison.

Auble, G. T.; J. Friedman; and M. L. Scott. 1991. Riparian vegetation of the Black Canyon of the Gunnison River, Colorado: composition and response to selected hydrologic regimes based on a direct gradient assessment model. Unpublished report by U. S. Fish and Wildlife Service, National Ecology Research Center: for National Park Service, Water Resources Division, Water Rights Branch. 79 pp.  
 Stream regulation/Riparian vegetation/Riparian ecology/Gunnison.

Barclay, J. S. 1980. Impact of stream alterations on riparian communities in southcentral Oklahoma. U. S. Dept of Interior: U. S. Fish and Wildlife Service (FWS/OBS-80/17).  
 Stream regulation/Riparian ecology/Other region related.

Behnke, R. J. 1980. The impacts of habitat alterations on the endangered and threatened fishes of the Upper Colorado River Basin: A discussion. In: W. O. Spofford, A. L. Parker, and A. V. Kneese, Editors. *Energy development in the Southwest: Problems of water, fish and wildlife in the Upper Colorado River Basin*. Washington, D. C.: Resources for the Future, Research Paper R-18; 2: 182-192.  
 Endangered species/Fisheries biology/Colorado related/Stream regulation.

---. 1986. Potential impacts of reduced winter flows in Gunnison River on trout reproduction and growth in relation to lower temperatures and ice formation. Fort Collins, Colorado: Colorado State University, Department of Fishery and Wildlife Biology.  
 Stream regulation/Freshwater ecology/Gunnison/Fisheries biology.

Beidleman, R. G. 1959. The Gunnison River diversion project. *Colorado Magazine: The State Historical Society of Colorado*. 36(3): 187-201 and 266-285.  
 Historical/Stream regulation/Gunnison/Pre-regulation.

Beidleman, R. G.; Ferchau, H. A.; Hansen, W. R.; Larson, J. W.; Reed, E. B.; Rominger, J. M. 1968. Natural resources basic data for Curecanti and Black Canyon. *Scientific Field Team Report for Midwest Region*: National Park Service, U.S.D.I. 100 pp.  
 This team was interested in providing a basic understanding of the natural resource components and ecosystem dynamics in both the national monument and national recreation area.  
 Riparian ecology/Freshwater ecology/Stream regulation/Gunnison/ BLCA file/CURE file.

Bell, D. C.; and N. K. Johnson. 1990 Sep. State water laws and federal water uses: the history of conflict, the prospects for accommodation. *Environmental Law*.  
 Water law/Stream regulation/General research related.

Beus, S. S.; and C. C. Avery; et al. (Northern Arizona University and others). 1992. The influence of variable discharge regimes on Colorado River sand bars below Glen Canyon dam: draft final report. Chapter 10: An integration of results from the GCES sand bar stability research project. Northern Arizona University, Flagstaff, Arizona: U.S. Dept. of Interior, National Park Service Cooperative Parks Study Unit. 19 pp.  
 Stream regulation/Geomorphology/Colorado related.

Booker, J. F.; and R. A. Young. 1991 Aug 1. Economic impacts of alternative water allocation institutions in the Colorado River Basin. Completion report. (161).  
Economics/Stream regulation/Water contract/Colorado related.

Brown, T. C.; B. L. Harding; and E. A. Payton. 1990 Dec 1. Marginal economic value of streamflow: a case study for the Colorado River Basin. *Water Resources Research*. 26(12): 2845.  
Economics/Stream regulation/Colorado related.

Bureau of Land Management, U.S.D.I. 1990 Sep. Dolores River instream flow assessment, project report (prepared by S. Vandas and others). Denver, Colorado: B.L.M., PMDS, Denver Federal Center, Bldg. 41, 80225-0047; BLM/YA/PR-90/003 + 7200. 92 pp + appendices.  
Colorado related/Stream regulation.

---. 1992 Aug. Project plan: Gunnison Gorge instream flow assessment, Uncompahgre Basin Resource Area, Colorado. Montrose, Colorado: B.L.M., U.S.D.I. 17 pp.  
Hydrology/Stream regulation/Gunnison.

Bureau of Reclamation, U.S.D.I. 1971. Crystal dam, reservoir, and power plant, Curecanti unit, Colorado River storage project (final environmental impact statement). Upper Colorado Region: Bureau of Reclamation. 53 pp.  
Hydropower/Environmental document/Stream regulation/Gunnison.

---. 1971. Crystal dam, reservoir, and power plant, Curecanti unit, Colorado River storage project (draft environmental impact statement). Upper Colorado Region: Bureau of Reclamation. 32 pp.  
Hydropower/Environmental document/Hydropower/Stream regulation/ Gunnison.

---. 1973. Crystal dam, reservoir, and power plant, Curecanti unit, Colorado River Storage Project, Colorado. Supplement to final environmental impact statement. Upper Colorado Region: Bureau of Reclamation. 25 pp.  
Hydropower/Environmental document/Stream regulation/Gunnison.

---. 1988. Draft environmental assessment Uncompahgre Valley hydropower project. Upper Colorado Region: Bureau of Reclamation. Hydropower/Stream regulation/Environmental document/Gunnison.

---. 1989. Draft environmental impact statement, AB Lateral Hydropower Facility, Uncompahgre Valley Hydropower Project. Upper Colorado Region, Bureau of Rec.: In cooperation with the National Park Service and Bureau of Land Management. 232 pp.  
Hydropower/Environmental document/Stream regulation/Gunnison.

---. 1990. Final environmental impact statement: AB Lateral hydropower facility, Uncompahgre Valley Reclamation Project, Montrose and Delta Counties, Colorado, Vols. I and II. Upper Colorado Region: Bureau of Reclamation. 532 pp.  
Hydropower/Environmental document/Stream regulation/Gunnison.

---. 1987. Lower Gunnison Basin unit (winter water): preconstruction report. Upper Colorado Region: Bureau of Rec.  
Reservoir operation and management/Stream regulation/Gunnison.

---. 1989. Preliminary draft environmental impact statement, AB Lateral Hydropower Facility environmental report. Upper Colorado Region: Bureau of Rec. 166 pp.  
Hydropower/Environmental document/Stream regulation/Gunnison.

- . 1971. Statement of environmental impact - overland ditch and reservoir company, Hotchkiss, Colorado, Reclamation Project. Upper Colorado Region: Bureau of Rec. Stream regulation/Environmental document/Colorado related.
- . 1990. Status of reservoirs, Colorado River Storage Project, reservoir behind Crystal Dam. Upper Colorado Region: Bureau of Reclamation. Reservoir operation and management/Stream regulation/Colorado related.
- Burgi, P. H. 1979. Winter ice jams on the Gunnison River. Denver, Colorado: U.S. Bureau of Reclamation, Engineering and Research Center, Division of Research, Hydraulics Branch; REC-ERC-79-4. 30 pp. Stream regulation/Reservoir operation and management/Gunnison.
- Burkhard, W. T.; N. F. Smith; T. A. Lytle; and H. E. Burdick Sr. 1979. Final report for fish and wildlife resource analysis of the Grand Mesa project. Contract 7-07-40-S0425: Colorado Division of Wildlife. Fisheries biology/Stream regulation/Wildlife biology/Gunnison.
- Center for Public-private Sector Cooperation, University of Colorado. 1993. Recommendations on the legal, policy, and institutional issues related to instream flow protection in Colorado. U. of Colorado: Colorado River Recovery Implementation Program. (Colorado River Recovery Implementation Program Reports). Water law/Stream regulation/Colorado related.
- Chart, T. E. 1992 Mar 1. Impact of mainstream impoundment on the distribution and movements of the resident flannelmouth sucker (*Catostomus latipinnis*) population in the White River, Colorado. The Southwestern Naturalist. 37(1): 9. Fisheries biology/Stream regulation/Colorado related.
- Cooperrider, A. Y. 1989. Terrestrial wildlife dependency on instream flow in Dolores River, Colorado: a literature review. Denver, Colorado: Bureau of Land Management, Service Center (unpublished report). Colorado related/Stream regulation/Wildlife biology.
- Copeland, H. L. 1989. Seasonal and diel invertebrate drift patterns in regulated streams. Aquatic invertebrates/Stream regulation/General research related.
- Dawdy, D. O. 1992 Jul. The Colorado doctrine and in-stream flows. Environment. 5 pp. Stream regulation/Reclamation law/Colorado related.
- Dawdy, D. R. 1991. Hydrology of Glen Canyon and the Grand Canyon. In: Colorado river ecology and dam management. : National Academy Press: 40-53. Hydrology/Colorado related/Stream regulation.
- Denisov, P. P. 1991 Nov 1. An investigation of water-power regimes in stream-flow regulation. Water resources. 18(6): 599. Stream regulation/Hydrology/General research related.
- Fenner, P.; W. W. Brady; and D. R. Patton. 1985. Effects of regulated water flows on regeneration of Fremont cottonwood. Journal of Range Management. 38: 135-138. General research related/Riparian ecology/Stream regulation/ Riparian vegetation.
- Fischer, N. T.; M. S. Tolle; A. C. Cully; and L. D. Potter. 1983. Vegetation along the Green and Yampa Rivers and response to fluctuating water levels, Dinosaur National Monument. Final Report under Contract # CX

1200-Z-B024: Submitted to the National Park Service. 179 pp.  
 Riparian ecology/Stream regulation/Riparian vegetation/Colorado related.

Florsheim, J. L.; P. Goodwin; and Y. Rubin (Philip Williams & Associates, Ltd., Pier 35 The Embarcadero, S.F., CA 94133, and Dept. of Civil Eng., U. C., Berkley CA 94720). Historic changes in geomorphic and hydrologic processes in the Russian River, California. In managing regulated streams poster session. American Geophysical Union; 1992 Dec.  
 Hydrology/Geomorphology/Stream regulation/Other region related.

Franz, E. H.; and F. A. Bazzaz. 1977. Simulation of vegetation response to modified hydrologic regimes: a probabilistic model based on niche differentiation in a floodplain forest. *Ecology*. 58: 176-183.  
 Riparian ecology/Riparian vegetation/General research related/ Stream regulation.

Garde, R. 1980. Yampa River morphological characteristics. In: Simons, D.; R. Li; P. Lagasse; and R. Milhous. Workshop on downstream river channel changes resulting from diversions or reservoir construction. U.S. Fish and Wildlife Service: 29-46.  
 Geomorphology/Stream regulation/Colorado related.

Goettlicher, W. P.; and M. J. Pucherelli. 1992. Mapping instream habitat on the San Juan River as related to the Animas-La Plata Project using airborne videography; draft. Denver, Colorado: Applied Sciences Branch, Research and Laboratory Services Branch, Bureau of Reclamation, U.S.D.I. 41 pp.  
 Mapping/Stream regulation/Colorado related.

Gore, J. A.; and G. E. Petts, eds. 1989. Alternatives in regulated river management. Boca Raton, Florida: CRC Press.  
 General research related/Reservoir operation and management/ Stream regulation/Freshwater ecology.

Gosse, J. C. 1985. Microhabitat of trout in tailwaters below western dams.  
 Fisheries biology/Stream regulation/Other region related.

Graf, W. L. 1980. The effect of dam closure on downstream rapids. *Water Resources Research*. 16(1): 129-136.  
 Hydrology/Geomorphology/Stream regulation/General research related.

Gup, T. 1994. Dammed from here to eternity: dams and biological integrity. *Trout*. 35: 14-20.  
 Freshwater ecology/Stream regulation.

Holden, P. B. 1980. The relationship between flows in the Yampa River and success of rare fish populations in the Green River system. Logan, Utah: Bio/West, Inc.; Report PR-31-1. 39 pp.  
 Endangered species/Fisheries biology/Stream regulation/Colorado related.

Holden, P. B.; and L. W. Crist. 1980. Documentation of changes in the macroinvertebrate and fish populations in the Green River system. Logan, Utah: Bio/West Inc.; Report PR-16-5. 92 pp.  
 Endangered species/Fisheries biology/Aquatic invertebrates/ Stream regulation/Colorado related.

---. 1981. Documentation of changes in the macroinvertebrate and fish populations in the Green River due to inlet modification of Flaming Gorge Dam. Logan, Utah: Bio/West Inc.; Report PR-16-5. 92 pp.  
 Endangered species/Fisheries biology/Aquatic invertebrates/ Stream regulation/Colorado related.

Hupp, C. R. 1992 Aug 1. Riparian vegetation recovery patterns following stream channelization: a geomorphic perspective. *Ecology*. 73(4): 1209.  
 Riparian ecology/Geomorphology/Riparian vegetation/Stream regulation/General research related.

1992 Jan. Hydropower project threatens Black Canyon. National Parks: 1 p.  
 Hydropower/Stream regulation/Gunnison.

Johnson, R. R. 1991. Historic changes in vegetation along the Colorado River in the Grand Canyon. In: Colorado River Ecology and Dam Management. Wash., D. C.: National Academy Press: 178- 206.  
 Riparian ecology/Stream regulation/Riparian vegetation/Colorado related.

Johnson, W. C. Dams and riparian forests; case study from the upper Missouri River. Regulated Rivers (to be published in early 1993).  
 Riparian ecology/Stream regulation/Riparian vegetation/Other region related/General research related.

---. Dams and riparian forests; case study from the upper Missouri River. Regulated Rivers (to be published in early 1993). Riparian ecology/Stream regulation/Riparian vegetation/Other region related/General research related.

---. 1992. Dams and riparian forests: case study from the upper Missouri River. Rivers. 3(4): 229-242.  
 Other region related/Riparian ecology/Riparian vegetation/Stream regulation.

Kaeding, L. R.; and D. B. Osmundson. 1989. Biologically defensible flow recommendations for the maintenance and enhancement of Colorado squawfish habitat in the '15-mile' reach of the Upper Colorado River during July, August and September. Grand Junction, Colorado: U. S. Fish and Wildlife Service, U.S.D.I. 169 pp.  
 Stream regulation/Endangered species/Fisheries biology/Colorado related.

Kaplinski, M. A.; J. Hazel; H. M. Mayes; S. S. Beus; and L. Stevens (Northern Arizona University, Geology Department, Flagstaff, AZ 86011-6030 and NPS-RMD, Grand Canyon, AZ 86023). The influence of variable discharge regimes on Colorado River sand bars below Glen Canyon dam. American Geophysical Union; 1992 Dec.  
 Stream regulation/Geomorphology/Colorado related.

Kaweka, B. 1990. The effect of flood-control regulation of a montane stream on the communities of sessile algae. Acta hydrobiologica. 32(3 / 4): 345.  
 Freshwater ecology/Vegetation/Stream regulation/General research related.

Kellerhals, R. 1980. Yampa River. Simons, D.; R. Li; P. Lagasse; and R. Milhous, editors. Workshop on downstream river channel changes resulting from diversions or reservoir construction. U.S. Fish and Wildlife Service: 47-54.  
 Stream regulation/Geomorphology/Colorado related.

Kidd, G. T. 1977. An investigation of endangered and threatened fish species in Upper Colorado River as related to Bureau of Reclamation projects; final report to U. S. Bureau of Reclamation. Clifton, Colorado: Northwest Fisheries Research. 36 pp.  
 Stream regulation/Endangered species/Fisheries biology/Colorado related.

Knopf, F. L.; and M. L. Scott. 1990. Altered flows and created landscapes in the Platte River headwaters, 1840-1990. In: Sweeney, J. M., ed. Management of dynamic ecosystems. West Lafayette, Indiana, USA: The Wildlife Society, North Central Section: 47-70.  
 Stream regulation/Other region related/Geomorphology.

Ligon, F. K.; W. E. Dietrich; and W. J. Trush. 1995. Downstream ecological effects of dams. BioScience. 45(3): 183-192.  
 Riparian ecology/Stream regulation/Freshwater ecology/General research related/Geomorphology.

Lindgren, D. E. 1992. The Colorado River: are new approaches possible now that the reality of overallocation is here. In: Rocky Mountain Mineral Law Institute: [proceed ... : 25. Stream regulation/Colorado related.

Lohman, S. W. Abandonment of the Unaweep Canyon, Mesa County, Colorado, by capture of the Colorado and Gunnison Rivers. U.S. Geological Survey Research. 1961: B144-B146. Stream regulation/Gunnison/Geomorphology/Colorado related.

Lyons, J. 1989. Green River channel characteristics below Flaming Gorge. Denver, Colorado: U. S. Bureau of Reclamation, U.S.D.I. Geomorphology/Colorado related/Stream regulation.

Lyons, J. K.; M. J. Pucherelli; and R. C. Clark. 1992. Sediment transport and channel characteristics of a sand-bed portion of the Green River below Flaming Gorge Dam, Utah, USA. Regulated Rivers: Research and Management. 7: 219-232. Geomorphology/Colorado related/Stream regulation.

Maddux, H. R.; D. M. Kubly; J. C. deVos, Jr.; W. R. Persons; R. Staedicke; and R. L. Wright. 1987. Effects of varied flow regimes on aquatic resources of Glen and Grand Canyons; final report. Salt Lake City, Utah: U. S. Bureau of Reclamation, U.S.D.I.; Contract 4-AG40-01810. 291 pp. Freshwater ecology/Stream regulation/Colorado related.

Mariah and Associates. 1986. Threatened and endangered plant survey and reconnaissance for riparian and wetland habitats on portions of the AB Lateral and Shavano Falls Facilities of the Uncompahgre Valley Hydropower Project, Montrose County, Colorado. Houston, Texas: EMANCO, Inc., unpublished report. Stream regulation/Endangered species/Riparian ecology/Riparian vegetation/Colorado related/Gunnison.

Martinez, P. J. 1986A. White River Taylor Draw Project: pre- and post- impoundment fish community investigations; final report. Grand Junction, Colorado: Colorado Division of Wildlife; Contract 5281-x. 121 pp. Fisheries biology/Pre-regulation/Stream regulation/Colorado related.

McAda, C. W.; and L. R. Kaeding. 1991. Physical changes in the Gunnison and Colorado Rivers resulting from construction of the Aspinall Unit and related projects, with hypotheses to assess the effects on the endangered fishes; final report. Grand Junction, Colorado: U.S. Fish and Wildlife Service. 60 pp. The purpose of this document is to: 1) describe changes in the Gunnison and upper Colorado rivers as a result of the Aspinall Unit and the two recent projects, and 2) to hypothesize how these changes have affected the native fish community. This information will be used to design studies to test these hypotheses and to assess the benefits for endangered fishes that could be achieved by reoperating the Aspinall Unit. Fluvial geomorphology/Fisheries biology/Gunnison/Endangered species/Stream regulation.

Median, A. L. 1990 Jun 1. Possible effects of residential development on streamflow, riparian plant communities, and fisheries on small mountain streams in central Arizona. Forest Ecology and Management. 33/34(1/4): 335. Riparian ecology/Stream regulation/Riparian vegetation/Fisheries biology/Other region related/General research related.

Milhous, R. T. 1986. Determining instream flows for flushing of rivers and channel maintenance - a review. Proceedings, Hydrology Days, Amer. Geophysical Union; 1986 Apr; Ft. Collins, Colorado. General research related/Fluvial geomorphology/Stream regulation.

Molles, M. 1980. The impacts of habitat alterations and introduced species on the native fishes of the Upper Colorado River Basin. Pages 163-181 In: W. O. Spofford, A. L. Parker, and A. V. Kneese, editors. Energy development in the Southwest - problems of water, fish and wildlife in the Upper Colorado River Basin; Vol. 2 Resources for the Future. Washington, D.C.  
Fisheries biology/Stream regulation/Freshwater ecology/Colorado related.

1991 Jul 22. Nation: Endangered River. Time. 138(3): 20.  
The very prosperity it made possible now threatens the mighty Colorado.  
Stream regulation/Colorado related.

National Park Service, U.S.D.I. 1993. Instream flows for recreation: A handbook on concepts and research methods. Oregon State University: Cooperative Park Studies Unit, National Park Service Water Resources Division. 103 pp.  
Stream regulation/Recreation/General research related/NPS management document.

---. 1990. J. Riedel, project manager. Skagit River project (FERC No. 553) report on existing conditions of reservoir and streambank erosion. submitted by Seattle City Light. 96 pp.  
Reservoir operation and management/Stream regulation/ Geomorphology/Other region related.

National Research Council. 1987. River and dam management: A review of the Bureau of Reclamation's Glen Canyon Environmental Studies. Washington, D. C.: National Academy Press. 203 pp.  
Stream regulation/Colorado related.

Nehring, R. B. 1979. Evaluation of instream flow methods and determination of water quantity needs for streams in the state of Colorado. Fort Collins, Colorado: Colorado Division of Wildlife. 144 pp.  
Stream regulation/Colorado related.

Nesler, T. P.; and L. Lentsch. Aspinall Unit studies; 1992 annual project report; Colorado River Fishes Recovery Program. 1992. 7 pp.  
Endangered species/Fisheries biology/Stream regulation/Gunnison.

O'Keefe, J.; and B. Davies. 1991. Conservation and management of the rivers of the Kruger National Park: suggested methods for calculating instream flow needs. Aquatic Conservation: Marine and Freshwater Ecosystems. 1: 55-71.  
Stream regulation/Freshwater ecology/Other region related.

Osmundson, D. B.; and L. R. Kaeding. 1991. Recommendations for flows in the '15-mile reach' during October-June for maintenance and enhancement of endangered fish populations in the Upper Colorado River; final report. Grand Junction, Colorado: Region 6, U. S. Fish and Wildlife Service, U.S.D.I. 81 pp.  
Endangered species/Fisheries biology/Colorado related/Stream regulation.

---. 1989. Studies of Colorado squawfish and razorback sucker use of the '15-mile reach' of the Upper Colorado River as part of conservation measures for the Green Mountain and Ruedi Reservoir water sales; final report. Grand Junction, Colorado: U. S. Fish and Wildlife Service, U.S.D.I.  
Endangered species/Fisheries biology/Stream regulation/Water contract/Colorado related.

Parker, G. 1980. Downstream response of gravel-bed streams to dams: an overview. Pages 792-801 in: H. G. Stefan, ed. Proceedings of the Symposium on Surface Water Impoundments. New York: American Society of Civil Engineers.  
Fluvial geomorphology/General research related/Stream regulation.

Parker, R. S.; J. M. Nelson; J. G. Elliot; and W. P. Carey (United States Geological Survey, WRD, MS-415, Box 25046, DFC, Lakewood, CO 80225; 303-236-4882). Changes in bed mobility due to altered streamflows in cobble-bedded mountain streams in the Gunnison River Basin, Colorado. American Geophysical Union; 1992 Dec.

Stream regulation/Fluvial geomorphology/Gunnison.

Paulin, K.; H. Tyus; and C. Williams. 1990. Response of young Colorado squawfish and razorback suckers to water flow and light intensity; unpublished report. Vernal, Utah: U. S. Fish and Wildlife Service. Endangered species/Fisheries biology/Stream regulation/Colorado related.

Pearlstine, L.; H. McKellar; and W. Kitchens. 1985. Modelling the impacts of a river diversion on bottomland forest communities in the Santee River floodplain, South Carolina. Ecological Modelling. 29: 283-302. Stream regulation/Riparian ecology/Riparian vegetation/Other region related.

Pemberton, E. L. Channel changes in the Colorado River below Glen Canyon Dam. Proceedings of the Third Federal Inter-Agency Sedimentation Conference. 1976: 5-61-5-73. Stream regulation/Geomorphology/Colorado related.

Petsch, H. E. 1983. Streamflow statistical summaries for Colorado streams through September 30, 1975. Lakewood, Colorado: U. S. Geological Survey Open-file Report No. 83-693, vol. 3. Hydrology/Stream regulation/Colorado related.

Petts, G. E. 1980. Longterm consequences of upstream impoundment. Environmental Conservation. 7: 325-332. General research related/Stream regulation/Freshwater ecology.

Prichard, D. 1989. Report on aquatic life and vegetation dependency on instream flow in Dolores River, Colorado. Denver, Colorado: U. S. Bureau of Land Management, Service Center. Colorado related/Freshwater ecology/Stream regulation.

Pucherelli, M. J.; R. C. Clark; and R. D. Williams. 1990. Mapping backwater habitat on the Green River as related to the operation of Flaming Gorge Dam using remote sensing and GIS. Denver, Colorado: United States Bureau of Reclamation Research and Laboratory Services Division report; R-90-18. 11 pp. Photo documentation/Stream regulation/Geomorphology/Fisheries biology/Colorado related.

Randall, G. 1992 May 1. Dammed Colorado. Buzzworm. 4(3): 26.

The Colorado became a river without its own destiny when the last big dam, in Glen Canyon, was completed, turning the lifeblood of the west into an artery for development. Now the Bureau of Reclamation is trying to work with the environmentalists to breathe some life in the river's flow. But will that really fix things?

Stream regulation/Colorado related.

Rood, S. B.; and J. M. Mahoney. 1990. Collapse of riparian poplar forests downstream from dams in western prairies: probable causes and prospects for mitigation. Environmental Management. 14: 451- 464. Riparian ecology/Stream regulation/Riparian vegetation/Other region related.

Rosgen, D. 1982. A procedure and rationale for securing favorable conditions of water flows on National Forest lands in northern Wyoming. Region 2: U. S. Forest Service, U.S.D.A. 88 pp. General research related/Stream regulation.

S. E. L. & Associates. Rivers: studies in the science, environmental policy, and the law of instream flow. Water law/Hydrology/Stream regulation/Colorado related.

Sander, W. H. III. 1980. An ex-post analysis of the Uncompahgre Project. : ? Stream regulation/Gunnison.

Schmidt, J. C.; and D. T. Patten (Department of Geography and Earth Resources, Utah State University, Logan UT 84322-5240; 801-750-1791, and Center for Environmental Studies, Arizona State University, Tempe, AZ 85287; 602-925-2975). Development of interim and permanent reservoir-release rules for Glen Canyon Dam. American Geophysical Union; 1992 Dec. Reservoir operation and management/Stream regulation/Colorado related.

Schwartz, S. S. (Interstate Commission on the Potomac River Basin, Rockville, MD; 301-984-1908). Functional analysis of transport criteria for river regulating reservoirs. American Geophysical Union; 1992 Dec. Hydrology/Stream regulation/Geomorphology/Other region related.

Shelby, B.; T. C. Brown; and R. Baumgartner. 1992 Jul 1. Effects of streamflows on river trips on the Colorado River in Grand Canyon, Arizona. *Rivers: studies in the science, environmental ...* 3(3): 191. Stream regulation/Recreation/Colorado related.

Simons, D. B. 1979. Effects of stream regulation on channel morphology. Pages 95-111 in: J. V. Ward and J. A. Stanford, eds. *The Ecology of Regulated Streams*. New York: Plenum Press. Fluvial geomorphology/Stream regulation/General research related.

Smith, S. D.; and A. B. Wellington. 1991 Feb 1. Functional responses of riparian vegetation to streamflow diversion in the eastern Sierra Nevada. *Ecological Applications*. 1(1): 89. Riparian ecology/Riparian vegetation/Stream regulation/Other region related.

Stalnaker, C. B.; and P. B. Holden. Changes in native fish distribution in the Green River system, Utah-Colorado. *Proceedings of the Utah Academy of Science*; 1973. 50(1): 25-32. Colorado related/Fisheries biology/Stream regulation.

Stanford, J. A. 1993. Instream flows to assist the recovery of endangered fishes of the Upper Colorado River Basin: review and synthesis of ecological information, issues, methods and rationale. *Colorado River Recovery Implementation Program Reports*: U. S. Fish and Wildlife Service. Stream regulation/Fisheries biology/Endangered species/Colorado related.

Stanford, J. A.; and J. V. Ward, eds. 1979. *The ecology of regulated streams*. New York: Plenum Press. Freshwater ecology/General research related/Riparian ecology/ Stream regulation.

---. 1983. The effects of mainstream dams on physiochemistry of the Gunnison River, Colorado [Chapter 4]. In: Adams, V. D.; and V. A. Lamarra, eds. *Aquatic resources management of the Colorado River ecosystem*. Ann Arbor, Michigan: Ann Arbor Science: 43-56. Stream regulation/Water quality/Freshwater ecology/Gunnison.

---. 1985. The effects of regulation on the limnology of the Gunnison River: a North American case history. A. Lillehammer and S. Saltveit, eds. *Regulated Rivers*. Oslo, Norway: Universitetsforlaget As.: 467-480. Gunnison/Stream regulation/Freshwater ecology.

Stanford, J. A.; and Hauer. 1992 Mar 1. Mitigating the impacts of stream and lake regulation in the Flathead River catchment, Montana, USA: an ecosystem perspective. *Aquatic Conservation: Marine and Freshwater Ecology*. 2(1): 35. Freshwater ecology/Stream regulation/Other region related.

Stanford, J. A.; and J. V. Ward. Preliminary interpretations of the distribution of *Hydropsychidae* in a regulated river. In: G.P. Moretti, ed. Proceedings of the Third International Symposium on *Trichoptera*, Series *Entomologica*. 1981; 20: 323-328.  
 General research related/Freshwater ecology/Aquatic invertebrates/Stream regulation/Unknown region.

---. 1986. Reservoirs of the Colorado system. In: Davies, B. R.; and K. F. Walker, eds. The ecology of river systems. Dordrecht, The Netherlands: Dr. W. Junk Publishers.  
 Freshwater ecology/Stream regulation/Colorado related.

---. 1989. Serial discontinuities in a Rocky Mountain river. I. Distribution and abundance of *Plecoptera*. In: Regulated rivers: research & management. : John Wiley & Sons, Ltd.; Vol. 3: 169- 175.  
 Aquatic invertebrates/Gunnison/Stream regulation.

---. 1989. Serial discontinuities in a rocky mountain river II. distribution and abundance of *Trichoptera*. In: Regulated rivers: research and management. : John Wiley & Sons, Ltd. 6 pp.  
 Aquatic invertebrates/Gunnison/Stream regulation.

Stevens, M. A. 1988. AB Lateral hydropower project, changes in river morphology. Grand Junction, Colorado: HDR Engineering, Inc., and Bureau of Reclamation. 16 pp.  
 Stream regulation/Fluvial geomorphology/Gunnison.

Stromberg, J. 1993. Instream flow models for mixed deciduous riparian vegetation within a semiarid region. Regulated Rivers: Research and Management. 8: 225-235.  
 General research related/Riparian ecology/Riparian vegetation/ Stream regulation.

Stromberg, J. C.; and D. T. Patten. 1991. Instream flow requirements for cottonwoods at Bishop Creek, Inyo County, California. Rivers. 2: 1-11.  
 Riparian ecology/Riparian vegetation/Other region related/Stream regulation.

Stromberg, J. C.; and D. C. Patten. 1990. Riparian vegetation instream flow requirements: a case study from a diverted stream in the eastern Sierra Nevada, California, USA. Environmental Management. 14: 185-194.  
 Riparian ecology/Stream regulation/Riparian vegetation/Other region related.

Tennant, D. L. 1976. Instream flow regimes for fish, wildlife, recreation, and related environmental resources. In: J. Osborn and C. Allman, eds. Proceeding: Specialty Conference on Instream Flow Needs: American Fisheries Society. ; II: 359-373.  
 Fisheries biology/Recreation/Stream regulation/General research related.

Tesky, R. O.; and T. M. Hinckley. 1977. Impact of water level changes on woody riparian and wetland communities. Volume 1: plant and soil responses to flooding. Office of Biological Sciences: U. S. Dept. of Interior, U.S. Fish and Wildlife Service; FWS/OBS-77/58.  
 Riparian ecology/Stream regulation/Riparian vegetation/Soils/General research related/Freshwater ecology.

Tyus, H. M. 1992 Jan 1. An instream flow philosophy for recovering endangered Colorado River fishes. Rivers: studies in the science, environmental... 3(1): 27.  
 Stream regulation/Fisheries biology/Endangered species/Colorado related.

---. 1984. Loss of stream passage as a factor in the decline of the endangered Colorado squawfish. Pages 138-144 In: Issues and Technology in the Management of Impacted Western Wildlife; Proceedings of a national symposium. Boulder, Colorado: Thorne Ecological Institute Technical Publication 14.  
 Colorado related/Endangered species/Fisheries biology/Stream regulation.

Tyus, H. M.; and C. A. Karp. 1991. Habitat use and streamflow needs of rare and endangered fishes, Green River, Utah. Vernal, Utah: U. S. Fish and Wildlife Service, U.S.D.I. 54 pp.  
Stream regulation/Endangered species/Fisheries biology/Colorado related.

U. S. Department of Interior, Assistant Secretary. 1963. Published by U. S. Government Printing Office, House Document No. 77, 88th Congress, 1st Session; 1963.  
Letter transmitting a supplemental report and certification of economic justification on the Crystal Dam, reservoir, and power plant, which comprises a segment of the Curecanti unit, Colorado river storage project, in Colorado.  
Water supply/Economics/Stream regulation/Gunnison.

U. S. Fish and Wildlife Service, U.S.D.I. 1992B. Final Biological Opinion for the operation of Flaming Gorge Dam. Denver, Colorado: Region 6, U. S. Fish and Wildlife Service. 44 pp plus appendices. ~~Endangered~~ species/Freshwater ecology/Stream regulation/ Environmental document/Colorado related.

---. 1957. A report on fish and wildlife resources Curecanti Unit, Colorado River Storage Project, Colorado. Colorado: U. S. Fish and Wildlife Service.  
This report contains a detailed analysis of the effect of Curecanti unit, Colorado River Storage project, upon fish and wildlife resources in the Gunnison River Valley, Colorado.  
Wildlife biology/Fisheries biology/Gunnison/Pre-regulation/ Stream regulation.

U. S. Forest Service, U.S.D.A. 1992. Instream flow needs assessment and recommendations for the proposed Piedra Wilderness (San Juan National Forest). Rocky Mountain Regional Office: U. S. Forest Service. 25 pp.  
Resource and land management/Stream regulation/Colorado related.

U. S. Geological Survey, U.S.D.I. 1984. Summary of basin and streamflow characteristics for selected basins in western Colorado and adjacent states. Open File Report 84-137: Denver, Colorado.  
Colorado related/Hydrology/Stream regulation.

Valdez, R. A.; and E. J. Wick. 1983. Natural vs. manmade backwaters as native fish habitat. Pages 519-536 In: V. D. Adams and V. A. Lamarra, Editors. Aquatic Resources Management of the Colorado River Ecosystem. Ann Arbor, Michigan: Ann Arbor Science. ~~Fisheries biology/Stream regulation/Freshwater ecology/Colorado related.~~

Vanicek, C. D.; R. H. Kramer; and D. R. Franklin. 1970. Distribution of Green River fishes in Utah and Colorado following closure of Flaming Gorge Dam. *The Southwestern Naturalist*; 14: 297-315.  
Fisheries biology/Stream regulation/Colorado related.

Ward, J. V.; and J. A. Stanford. 1991. Benthic faunal patterns along the longitudinal gradient of a Rocky Mountain river system. International Association for Theoretical and Applied Limnology; 1989; Munich, Germany. Stuttgart, Germany: E. Schweizerbart'sche Verlagsbuchhandlung; 24: 3087-3094.  
Freshwater ecology/Stream regulation/Aquatic invertebrates/ Gunnison.

---. 1979. Ecological factors controlling stream zoobenthos with emphasis on thermal modification of regulated streams. In: Ward, J. V.; and J. A. Stanford, eds. *The Ecology of Regulated Streams*. New York: Plenum Publishing: 35-55.  
Aquatic invertebrates/Unknown region/General research related/ Freshwater ecology/Stream regulation.

---, eds. 1979. *The ecology of regulated streams*. New York: Plenum Press. 398 pp.  
Riparian ecology/Freshwater ecology/Stream regulation/General research related.

1992 May. Water project above Black Canyon approved. National Parks. 2 pp.  
Stream regulation/Water supply/Gunnison.

Water Science and Technology Board. 1991. Colorado River ecology and dam management. Washington, D. C.: National Academy Press. 276 pp.  
Reservoir operation and management/Freshwater ecology/Riparian ecology/Stream regulation/Colorado related.

---. 1987. River and dam management. Washington, D. C.: National Academy Press. 152 pp.  
Reservoir operation and management/Stream regulation/General research related.

Williams, G. P.; and M. G. Wolman. 1984. Downstream effects of dams on alluvial rivers. U.S. Geological Survey Professional Paper 1286: U.S.G.S.  
Stream regulation/Fluvial geomorphology/General research related.

Wullschleger, J. G. 1990. Initial impacts of an impoundment on downstream benthic invertebrate fauna.  
Aquatic invertebrates/Stream regulation/General research related.

## WATER QUALITY

1992 Apr. Administration of water quality and water quantity in Colorado. Colorado Water. 12.  
Water quality/Colorado related/Water supply.

Archuleta, A. S.; R. Krueger; L. DeWeese; and B. Osmundson. 1993. Occurrence of inorganic elements in the Upper Colorado River Basin and implications for threatened and endangered fish. Colorado Field Office: U. S. Fish and Wildlife, Environmental Contaminants Final Report (in preparation).  
Gunnison/Endangered species/Fisheries biology/Water quality/ Colorado related.

Bureau of Reclamation, U.S.D.I. 1984. Lower Gunnison Basin Unit feasibility report/final environmental statement/Colorado River Water Quality Improvement Program. Salt Lake City, Utah (?): Upper Colorado Region, Bureau of Rec., prepared in cooperation with U. S. Fish and Wildlife Service.  
Environmental document/Water quality/Gunnison.

Butler, D. L.; et al. 1991. Reconnaissance investigation of water quality, bottom sediment, and biota associated with irrigation drainage in the Gunnison and Uncompahgre River basins and at Sweitzer Lake, west-central Colorado, 1988-89. Denver, Colorado: U.S.D.I., U. S. Geological Survey, Books and Open File Reports Section; prepared in cooperation with the U. S. Fish and Wildlife Service and the U. S. Bureau of Reclamation; 91-4103. 99 pp.  
Freshwater ecology/Geomorphology/Water quality/Gunnison/Colorado related.

Colborn, T. 1982. Measurement of low levels of molybdenum in the environment by using aquatic insects. Bulletin of Environmental Contamination and Toxicology. 29:422-428.  
Aquatic invertebrates/Water quality/Gunnison.

Colorado Department of Health, Water Quality Control Commission. 1988. Classifications and numeric standards for Gunnison and Lower Dolores River Basins. Denver, Colorado: Colorado Department of Health.

Water quality/Gunnison/Colorado related.

Colorado Public Health Service. 1962. Salinity investigation of Grand Valley and Gunnison River, 1962 report on Colorado River Basin Water Quality Control Project. Denver, Colorado: Division of Water Supply and Pollution Control. 41 pp.

Water quality/Gunnison/Colorado related/Pre-regulation.

Colorado State Department of Health. 1988. Classifications and numeric standards for Gunnison and Lower Dolores River Basins. Denver, Colorado: Colo. Dept of Health, Water Quality Control Commission.

Water quality/Gunnison.

Federal Water Pollution Control Administration. 1969. A report on pollution of the Upper Colorado River basin. Cincinnati, Ohio: Federal Water Pollution Control Administration, Technical Advisory and Investigations Branch; PR-16. 82 pp.

Water quality/Colorado related/Gunnison.

Flug, M.; W. R. Walker; and G. V. Skogerboe. 1979. Energy-water- salinity: Upper Colorado River Basin. Journal of Water Resources Planning and Management Division, ASCE, Proc. Paper 14844. 105(WR2): 305-315.

Hydrology/Water quality/Colorado related.

---. 1979. Optimal water use and salinity control for energy - Upper Colorado River Basin. Water Resources Bulletin. 15(4): 964- 973.

Water supply/Water quality/Economics/Colorado related.

1991 Sep 1. Grand Valley on-farm programs protect Colorado River from salt. Irrigation Journal. 41(6): 8.

Over-irrigation and seepage from canals in the Grand Valley contribute more than 600,000 tons of salt annually to the Colorado River. On-farm programs developed by the SCA and the ARS are reducing the salt load.

Water quality/Economics/Colorado related.

Hobbs Jr., G.; and B. W. Raley. 1989. Water rights protection in water quality law. University of Colorado Law Review. 60(4): 841.

Water rights/Water quality/General research related.

Kircher, J. E.; R. S. Dinicola; and R. M. Middleburg. 1984. Trend analysis of salt load and evaluation of the frequency of water quality measurements for the Gunnison, the Colorado, and Dolores rivers in Colorado and Utah. Water-Resources Investigations: U.S. Geological Survey; 84-4048.

Water quality/Gunnison/Colorado related.

Kunkle, S.; R. Nickerson; G. Smillie; and R. Andrascik. 1983. Metal concentrations in fish at Curecanti National Recreation Area, Gunnison, Colorado. Curecanti NRA: U.S. National Park Service.

Fisheries biology/Gunnison/Water quality.

Laitos, J. G. 1989 Mar. Water quality antidegradation: the Colorado experience. Natural Resources and Environment. 4(1): 19.

Water quality/Colorado related.

Michaels, G. B.; T. Flynn; J. J. Hill; and D. J. Schneck. 1982. Use of bacterial populations in assessing the effects of thermal effluents on water quality of streams. Gunnison, Colorado: Western State College. 26 leaves.

Freshwater ecology/Water quality/Gunnison.

1989 Jan 1. Natural resource notes: the burden of maintaining Colorado's water quality. *Colorado Lawyer*. 18(1): 23.  
 Water quality/Colorado related.

Nelson, S. M.; and S. A. Flickinger. 1992 Oct 23. Salinity tolerance of Colorado squawfish, *Ptychocheilus lucius* (Pisces: Cyprinidae). *Hydrobiologia*. 246(2): 165.  
 Endangered species/Fisheries biology/Water quality/Colorado related/General research related.

Norris, J. M. 1987. Surface water-quality characteristics in the upper North Fork Gunnison River Basin, Colorado. Lakewood, Colorado: U. S. Geological Survey, water-resources investigations report; 86-4152. 42 pp. Books and Open-File Reports Section.  
 Water quality/Gunnison.

Norris, J. M.; and Maura, W. S. 1985. [Microfiche]. Water- quality data for streams in the Upper North Fork of the Gunnison River, Colorado. Lakewood, Colorado: U. S. Dept. of the Interior, Geological Survey. For sale by Open-File Services Section, Branch of Distribution.  
 Water quality/Gunnison.

Rumburg, C. B.; B. H. Gery; and K. Butcher. 1978. Gunnison County stream water quality study. Denver, Colorado: Water Division, U. S. Environmental Protection Agency. 85 leaves.  
 Water quality/Gunnison.

Sievers, G. D. 1949. The bacteriology and relative hardness of certain waters of the Gunnison watershed. Gunnison, Colorado: Western State College (thesis). 45 leaves.  
 Freshwater ecology/Water quality/Gunnison.

Stanford, J. A.; and J. V. Ward. 1983. The effects of mainstream dams on physiochemistry of the Gunnison River, Colorado [Chapter 4]. In: Adams, V. D.; and V. A. Lamarra, eds. Aquatic resources management of the Colorado River ecosystem. Ann Arbor, Michigan: Ann Arbor Science: 43-56.  
 Stream regulation/Water quality/Freshwater ecology/Gunnison.

Stevens, B. K.; and H. J. Vaux. 1990 May 1. Assessing strategies for control of irrigation-induced salinity in the Upper Colorado River Basin: comment. *American Journal of Agricultural Economics*. 72(2): 493.  
 Water quality/Colorado related.

U. S. Department of Interior. 1985. Quality of water Colorado River basin, progress report (12). 200 pp.  
 Water quality/Colorado related.

U. S. Geological Survey, U.S.D.I. Water resources data, Colorado. Annual hydrologic data report series. Denver, Colorado: prepared in cooperation with the State of Colorado and with other agencies; Volume 2, Colorado River Basin.  
 Water quality/Hydrology/Colorado related.

Whittig, L. D.; et al. 1985. Delineation and correlation of salinity to landforms and geologic formations, Upper Colorado River Basin. Davis, California: University of California, Davis.  
 Geology/Water quality/Colorado related.

Young, R. A.; R. L. Gardner; and E. W. Sparling. 1990 May 1. Assessing strategies for control of irrigation-induced salinity in the Upper Colorado River Basin: reply. *American Journal of Agricultural Economics*. 72(2): 497.  
 Economics/Water quality/Colorado related.

## WATER SUPPLY

1992 Apr. Administration of water quality and water quantity in Colorado. *Colorado Water*. 12. Water quality/Colorado related/Water supply.

Bureau of Reclamation, U.S.D.I. 1982. Bostwick Park project: Colorado, Montrose and Gunnison counties. Upper Colorado Region: Bureau of Reclamation. Reservoir operation and management/Water supply/Gunnison/ Colorado related.

---. 1950. Colorado River Storage Project and participating projects, Upper Colorado River Basin. Upper Colorado Region: Bureau of Reclamation. Reservoir operation and management/Water supply/Colorado related.

---. 1980. Colorado River System consumptive uses and losses report 1976-1980 (series: 5 years reported in each document beginning in 1970; directed by the Colorado River Basin Project Act of 1968). Upper and Lower Colorado Regions: Bureau of Reclamation. Colorado related/Water supply.

---. 1973 Aug. Upper Gunnison Project, Colorado, concluding report. Upper Colorado Region, Salt Lake City, Utah: Bureau of Reclamation. Reservoir operation and management/Gunnison/Water supply.

Carrier, J. 1991 Jun 1. Water and the West: the Colorado River. *National Geographic*. 179(6): 2. Increasing demand and persistent drought have drawn down the reservoirs of the Colorado River system, a critical water source for seven states and part of Mexico. Reservoir operation and management/Water supply/Economics/ Colorado related.

Colorado Division of Water Resources, Office of the State Engineer. Irrigated acreage database. Denver, Colorado: State of Colorado, Office of the State Engineer. A definition of net. consumptive use of Colorado water resources. Colorado related/Water supply.

---. Water diversion records and reservoir storage summaries. Published annually (from approx. 1900 through the present). Denver, Colorado: State of Colorado, Office of the State Engineer. Colorado related/Reservoir operation and management/Water supply.

Colorado Water Conservation Board. 1952. Report of Policy and Review Committee, Gunnison River Storage, to the Colorado Water Conservation Board. Denver, Colorado: Policy and Review Committee, Gunnison River Storage. Water supply/Reclamation law/Pre-regulation/Gunnison.

Eckert, J. B.; and E. Wang. 1993 Feb 1. Effects of irrigation water supply variations on limited resource farming in Conejos County, Colorado. *Water Resources Research*. 29(2): 229. Water supply/Economics/Colorado related.

Economic Research Service, U.S.D.A. 1962. Water and related land resources, Gunnison River Basin, Colorado: a report based on a cooperative study by Colorado Water Conservation Board and United States Department of Agriculture. Salt Lake City, Utah: prepared by Economic Research Service, U. S. Forest Service, Soil Conservation Service. 103 pp. Pre-regulation/Water supply/Economics/Gunnison.

Fellows, A. L. 1903 Nov. The Gunnison Tunnel. *Forestry and Irrigation*. 9.  
Historical/Pre-regulation/Water supply/Gunnison.

Flug, M.; W. R. Walker; and G. V. Skogerboe. 1979. Optimal water use and salinity control for energy - Upper Colorado River Basin. *Water Resources Bulletin*. 15(4): 964-973.  
Water supply/Water quality/Economics/Colorado related.

HDR Engineering, Inc. 1988. AB Lateral Unit water supply study. Omaha, Nebraska: HDR Engineering, Inc., unpublished report.  
Water supply/Gunnison.

---. 1987. Phase I feasibility study for Upper Gunnison - Uncompahgre Basin, task memorandum no. 1, existing water uses in the Upper Gunnison - Uncompahgre Basin. Gunnison, Colorado: HDR Engineering, Inc. This memorandum presents the results of the first two tasks of the feasibility study: 1) collect and review existing data, and 2) describe existing water resource systems and recreation facilities, and includes a bibliography.  
Water supply/Gunnison.

---. 1988. Phase I feasibility study for Upper Gunnison-Uncompahgre Basin, task memorandum no. 5, development and calibration of basin model comparison of existing supplies with future in-basin demands. HDR Engineering, Inc.  
Water supply/Gunnison.

---. 1988. Phase I feasibility study for Upper Gunnison - Uncompahgre Basin, task memorandum no. 3, future water demands in the Upper Gunnison - Uncompahgre Basin. Gunnison, Colorado: HDR Engineering, Inc.  
Water supply/Gunnison.

---. 1988. Phase I feasibility study for Upper Gunnison - Uncompahgre Basin, task memorandum no. 6, alternative plans for water development in the Upper Gunnison - Uncompahgre Basin. Gunnison, Colorado: HDR Engineering, Inc.  
Water supply/Gunnison.

---. 1989. Upper Gunnison-Uncompahgre Basin: phase I feasibility study: final report. Denver, Colorado: prepared by HDR Engineering in association with WBLA, Inc. et al. Water supply/Gunnison.

---. 1989. Upper Gunnison-Uncompahgre Basin: phase I feasibility study: final report-appendices. Denver, Colorado: prepared by HDR, Inc.  
Water supply/Gunnison.

Howe, C. W.; J. K. Lazo; and K. R. Weber. 1990 Dec 1. The economic impacts of agriculture-to-urban water transfers on the area of origin: a case study of the Arkansas River Valley in Colorado. *American Journal of Agricultural Economics*. 72(5): 1200.  
Economics/Water Supply/Colorado related.

Markoff, D. R. 1966. History of the Gunnison Waterworks since 1906. Gunnison, Colorado: Western State College (thesis). 98 leaves.  
Historical/Water supply/Gunnison.

Miller, T. 1966. A history of the Gunnison Water Works: 1880- 1906. Gunnison, Colorado: Western State College (thesis). 68 leaves.  
Pre-regulation/Historical/Water supply/Gunnison.

U. S. Department of Interior, Assistant Secretary. 1963. Published by U. S. Government Printing Office, House Document No. 77, 88th Congress, 1st Session; 1963.

Letter transmitting a supplemental report and certification of economic justification on the Crystal Dam, reservoir, and power plant, which comprises a segment of the Curecanti unit, Colorado river storage project, in Colorado.

Water supply/Economics/Stream regulation/Gunnison.

Upper Colorado Region State-Federal Interagency Group of the Pacific Southwest Inter-agency Committee Water Resources Council. Upper Colorado Region, comprehensive framework study, main report. Report prepared by: Upper Colorado staff and work group chairman. Colorado related/Water supply.

Upper Colorado River Commission. Upper Colorado River Commission official record (annual transcripts of Commission meetings: Volumes 1 through 44 (1992).

The Upper Colorado River Commission includes representatives from Colo., N. Mex., Utah, Wy., and the federal gov't. The annual transcripts report on water use and delivery, water storage, flood control, agricultural and industrial development.

Colorado related/Reservoir operation and management/Water supply.

Verdin, J. P.; L. Hall; J. Halls; and P. Davidson. Application of remote sensing and GIS to estimate irrigation water use in the Upper Gunnison River Basin in Colorado. 10 pp.

Water supply/Photo documentation/Gunnison.

1992 May. Water project above Black Canyon approved. National Parks. 2 pp.

Stream regulation/Water supply/Gunnison.

Williams, O. R.; S. L. Ponce; and A. E. Johns. 1988. The use of departure analysis in decision making. In: Water use data for water resources management. : American Water Resources Association: 447-453.

General research related/Water supply/Resource and land management.

## WILDLIFE BIOLOGY (terrestrial and riparian/aquatic - excludes fish and invertebrates)

Allan, S. E. 1988. Some thoughts on the identification of Gunnison's Red-backed Hawk (*buteo polyosoma*) and why it's not a natural vagrant. Colorado Field Ornithologists, Journal. 22(1): 9-14.

Wildlife biology/Gunnison.

Anderson, D. C.; K. B. Armitage; and R. S. Hoffman. 1976. Socioecology of marmots:female reproductive strategies. Ecology. 57: 552-560.

Wildlife biology/Gunnison.

Armitage, K. B. 1987. Social dynamics of mammals: reproductive success, kinship, and individual fitness. Trends in Ecology and Evolution. 2: 279-284.

Wildlife biology/Gunnison.

Baker, W. K.; and E. R. Blake. 1962. Additional evidence of Rivoli's hummingbird in Colorado. Auk. 79: 481-482.

Wildlife biology/Gunnison.

Beidleman, R. G. 1961. Checklist of Black Canyon National Monument birds: May-September. On file: Black Canyon of the Gunnison N.M., National Park Service.  
Wildlife biology/Pre-regulation/BLCA file/Gunnison.

Blake, B. H. 1972. The annual cycle and fat storage in two populations of golden-mantled ground squirrels. *Journal of Mammalogy*. 53: 157-167.  
Wildlife biology/Gunnison.

Burkhard, W. T.; N. F. Smith; T. A. Lytle; and H. E. Burdick Sr. 1979. Final report for fish and wildlife resource analysis of the Grand Mesa project. Contract 7-07-40-S0425: Colorado Division of Wildlife.  
Fisheries biology/Stream regulation/Wildlife biology/Gunnison.

Burnham, W.; Enderson, J. 1981. Blue Mesa Reservoir peregrine falcon study. Curecanti N.R.A.: National Park Service.  
The purpose of this project was to evaluate the suitability of federally administered lands in the vicinity of Blue Mesa Reservoir, Gunnison County, Colorado, for release of peregrine falcons (*Falco peregrinus*) and maintenance of a breeding pair(s).  
Wildlife biology/Gunnison/CURE file.

Calder, W. A. III. 1993. Hummingbird of the mountains. *Wildbird*. 7(5): 32-35.  
Wildlife biology/Colorado related/Gunnison.

---. 1973. Microhabitat selection during nesting of hummingbirds in the Rocky Mountains. *Ecology*. 54: 127-134.  
Wildlife biology/Colorado related/Gunnison.

---. 1993. Migration of rufous hummingbirds. *Wildbird*. 7(5): 42- 45.  
Wildlife biology/General research related/Gunnison.

Calder, W. A. III [and others]. 1983. Site-fidelity, logevity, and population dynamics of broadtailed hummingbirds: a ten year study. *Oecologia*. 56: 359-364.  
Wildlife biology/Gunnison/General research related.

Calder, W. A. III. 1987. Southbound through Colorado: migration of rufous hummingbirds. *National Geographic Research*. 3: 40-51.  
Wildlife biology/Gunnison/Colorado related.

Calder, W. A. III; and E. Jones. 1989. Implications of recapture data for migration of the rufous humingbird (*Selasphorus rufus*) in the Rocky Mountains. *Auk*. 106: 488-489.  
Wildlife biology/Colorado related/Gunnison.

Canterbury, J. 1983. Habitat utilization by the northern bald eagle in the Curecanti Recreational Area, 1982-1983. Curecanti N.R.A.: National Park Service.  
This paper documents an intense four week study of the wintering population and habitat of the Northern Bald Eagles (*Haliaeetus leucocephalus*) in the Curecanti Recreation Area of the Blue Mesa Reservoir and surrounding areas. Population counts were hampered by inaccessability; however, roosting and perching areas were the most critical aspects of the population observed.  
Endangered species/Wildlife biology/Gunnison/CURE file.

Carey, C. 1978. Factors affecting body temperatures of toads. *Oecologia*. 35: 197-219.  
Wildlife biology/General research related/Gunnison.

Cook, K. J. 1980. A checklist to the birds of Curecanti National Recreation Area. Tucson, Arizona: Southwest Parks and Monuments Assoc.  
Wildlife biology/Gunnison/CURE file.

---. 1979. Field observations of two heron species in Gunnison County, Colorado: great blue heron (*Ardea herdias treganzai*) and black-crowned night heron (*Nycticorax nycticorax hoactli*). 70 pp.  
Wildlife biology/Gunnison.

Cooperider, A. Y. 1989. Terrestrial wildlife dependency on instream flow in Dolores River, Colorado: a literature review. Denver, Colorado: Bureau of Land Management, Service Center (unpublished report).  
Colorado related/Stream regulation/Wildlife biology.

Cornelius, B. 1990. Beaver activity and control at East Portal. Curecanti N.R.A. (files): National Park Service.  
Wildlife biology/CURE file/Gunnison.

---. 1981. Porcupine damage on Crystal and Morrow Point Lakes. Curecanti National R. A.: National Park Service.  
Wildlife biology/CURE file/Gunnison.

Cottrell, M.; Gregory, C. 1974. Bird list for Black Canyon of the Gunnison National Monument.  
Wildlife biology/BLCA file/Gunnison.

Davis, W. A. 1973. Birds in Western Colorado. Colorado Field Ornithologist. 15: 26.  
We submit this list as a preliminary ornithological survey of the avifauna of the Gothic area, not as a final, definitive, and fully documented report. However, it should convey some idea of the opportunity for study and research at the Rocky Mountain Biological Laboratory.  
Wildlife biology/Gunnison.

DeMott, S. L.; and G. P. Lindsey. 1975. Pigmy shrew, *Microsorex hoyi*, in Gunnison County, Colorado. Southwestern Naturalist. 20: 417-418.  
Wildlife biology/Gunnison.

Ehrlich, P. R.; and G. C. Daily. 1988. Red-naped sapsuckers feeding at willows: possible keystone herbivores. American Birds. 42(3): 357-365.  
Wildlife biology/Gunnison/General research related.

Einwalter, D. C. 1968. List of mammals Curecanti National Recreation Area. Curecanti N.R.A.: National Park Service.  
Wildlife biology/CURE file/Gunnison.

Enders, R. K. 1960. Birds seen at Black Canyon. Black Canyon of the Gunnison N.M.: National Park Service.  
Wildlife biology/Gunnison/BLCA file/Pre-regulation.

Finch, D. M. 1989 Aug 1. Habitat use and habitat overlap of riparian birds in three elevational zones. Ecology. 70(4): 866.  
Riparian ecology/Wildlife biology/General research related.

Grater, R. K. 1937. Preliminary survey on the status of bighorn at the Black Canyon of the Gunnison National Monument. Black Canyon of the Gunnison N.M.: National Park Service. 19 pp.  
June 27, 1937 a survey commenced on the south rim of the Black Canyon. The area was worked from west to east, several trips being made into the Canyon to study the areas above the river. On July 15, the

survey was completed and the data was recorded.  
 Wildlife biology/BLCA file/Gunnison/Pre-regulation.

Hammerson, G. A. 1986. Amphibians and reptiles in Colorado. Denver, Colorado: Colorado Division of Wildlife.  
 Wildlife biology/Gunnison/Colorado related.

Hann, H. W. 1950. Nesting behavior of the American dipper in Colorado. Condor. 52: 49-62.  
 Wildlife biology/Gunnison/Colorado related.

Hoy, B. 1964. List of mammals of Black Canyon of the Gunnison National Monument. Black Canyon of the Gunnison N.M. (file): National Park Service.  
 Wildlife biology/Gunnison/BLCA file.

---. 1966. List of mammals: Black Canyon of the Gunnison National Monument. Black Canyon of the Gunnison N.M. (file): National Park Service.  
 Wildlife biology/Gunnison/BLCA file.

Hyde, A. S. 1977. Bird checklist, Gunnison County, Colorado (and procedures for developing bird checklist). Curecanti N.R.A., Black Canyon of the Gunnison N.M.: National Park Service.  
 Wildlife biology/Gunnison/CURE file.

---. 1979. Birds of Gunnison Country. Gunnison, Colorado: Western State College Foundation; No. 1 of 400. 140 pp.  
 Wildlife biology/Gunnison.

Knox, D. A. 1944. Summer birds of the Gothic area, Gunnison Country, Colorado. The Auk. 61: 19-30.  
 Wildlife biology/Gunnison/Pre-regulation.

Kump, L. 1984. Porcupine populations survey: July 1984. Black Canyon of the Gunnison N.M.: National Park Service.  
 Update report on porcupine sightings in Black Canyon of the Gunnison.  
 Wildlife biology/Gunnison/BLCA file.

Langlois, D.; and J. Sisk. 1980. River otter restoration. Black Canyon of the Gunnison N.M.: National Park Service.  
 In recent years the Division of Wildlife has developed a program to increase the number of river otters in Colorado. About eleven areas have been investigated as transplant sites for otters imported from other states. Monitoring the success of these transplants has depended on modest field surveys and reports of sightings solicited from the public. The most urgent need in the restoration program is to develop a comprehensive, statewide river otter recovery plan.  
 Wildlife biology/Gunnison/BLCA file.

McCoy Jr., C. J. 1966. An annotated list of amphibians and reptiles of Black Canyon of the Gunnison National Monument. submitted to Black Canyon of the Gunnison N.M.: National Park Service.  
 Wildlife biology/BLCA file/Gunnison.

National Park Service, U.S.D.I. Birds of the Black Canyon. Black Canyon of the Gunnison N.M.: National Park Service.  
 This pamphlet contains two parts. The first describes the best locations to view birds in the park. Use a park map to identify the locations. The second part lists the birds that have been observed in the area over the years. A good bird guide will also be helpful in recognizing birds on this list.  
 Wildlife biology/Gunnison/BLCA file.

---. 1986. Black Canyon of the Gunnison, Canyon Wildlife. Black Canyon of the Gunnison N.M.: National Park Service.  
Wildlife biology/Gunnison/BLCA file.

---. Herpetological specimens contained in the Colorado and Black Canyon of the Gunnison National Monument museums. Black Canyon of the Gunnison N.M.: National Park Service.  
Wildlife biology/Gunnison/BLCA file.

Rayor, L. S.; A. K. Brody; and C. Gilbert. 1987. Hibernation in the Gunnison's prairie dog. *J. Mammalogy*. 68: 147-150.  
Wildlife biology/Gunnison.

Rocky Mountain/Southwestern Peregrine Falcon Recovery Team. 1977. American peregrine falcon, Rocky Mountain and Southwestern population, recovery plan. U.S. Fish and Wildlife Service: U.S.D.I. 183 pp.  
Wildlife biology/Colorado related.

State of Colorado, Department of Natural Resources. 1980. River Otter restoration, endangered wildlife investigations performance report (SE 3-3). Southwest Region: Colorado Division of Wildlife. 66 pp.  
Wildlife biology/Gunnison/Endangered species/BLCA file.

---. 1980. Signs of the river otter in the Black Canyon of the Gunnison River (addendum to report SE 3-3). J. Sisk, preparer. Southwest Region: Colorado Division of Wildlife. 57-66.  
Wildlife biology/Gunnison/Endangered species.

Stebbins, R. C. 1985. *Western Reptiles and Amphibians*. Boston, Mass.: Houghton Mifflin Company.  
Wildlife biology/General research related.

U. S. Fish and Wildlife Service, U.S.D.I. 1957. A report on fish and wildlife resources Curecanti Unit, Colorado River Storage Project, Colorado. Colorado: U. S. Fish and Wildlife Service.  
This report contains a detailed analysis of the effect of Curecanti unit, Colorado River Storage project, upon fish and wildlife resources in the Gunnison River Valley, Colorado.  
Wildlife biology/Fisheries biology/Gunnison/Pre-regulation/ Stream regulation.

Welch, J. E. 1989. Observations of whooping cranes/sandhill cranes in Black Canyon and Curecanti. Black Canyon of the Gunnison N.M.: National Park Service.  
Wildlife biology/Gunnison/BLCA file.

White, W. L. 1964. A five-year wildlife and range management plan for Black Canyon of the Gunnison National Monument. Black Canyon of the Gunnison N.M.: National Park Service.  
Wildlife biology/Gunnison/Resource and land management/BLCA file.





